

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**CORKTOWN DEVELOPMENT – AREA 4  
1336 AND 1342-50 BAGLEY STREET  
DETROIT, MICHIGAN, 48226**

**PREPARED FOR:**

**GREATER CORKTOWN DEVELOPMENT  
CORPORATION  
2140 MICHIGAN AVENUE  
DETROIT, MICHIGAN, 48216**

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**Project No: RM04276-008**

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**1.0 INTRODUCTION**

The Traverse Group was retained by the Wayne County Brownfield Redevelopment Authority (WCBRA) to conduct a Phase II Environmental Site Assessment (ESA) of the Corktown Development – Area 4 property located at 1336 and 1342-50 Bagley Street in the City of Detroit, Wayne County, Michigan (herein referred to as the “subject property”). The Phase II ESA activities were conducted in response to recognized environmental conditions (RECs) identified in the October 21, 2005, Phase I ESA prepared by The Traverse Group. Additionally, the Phase II ESA activities were conducted to identify if portions of the subject property constitute an environmental “facility” under Part 201 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

The Phase II ESA field activities included the advancement of three soil borings, soil sample collection, and laboratory analysis. This Phase II ESA report describes the subject property, the specific areas investigated, and the results of the investigation. A summary of field activities, analytical results, conclusions, and recommendations are presented in this report. In addition, a Site Location and Topographic Map (**Figure 1**), Soil Sampling Location Map (**Figure 2**), Soil Analytical Summary Tables (**Tables 1 through 3**), Soil Boring Logs (**Appendix A**), and Laboratory Analytical Reports and Chain-of-Custody (**Appendix B**) have been included.

**1.1 Site Location and Description**

The subject property is located at 1336 and 1342-1350 Bagley Street, at the northeast intersection of 8th Street and Bagley Street. A driveway and commercial auto service center bounds the subject property to the north. The subject property consists of two parcels and according to the City of Detroit Finance Department – Assessing Division, the property located at 1350 Bagley Street is owned by the Greater Corktown Economic Development Corporation and zoned as industrial property. The property located at 1336 Bagley Street is owned by the Corktown Historical Society and zoned as residential property. The legal descriptions are as follows:

**1336 Bagley Street:** Ward/Item No: 6/000351

**Legal Description:** N BAGLEY W 27 FT 11 BLK 58 COL D BAKER L17 P272-3  
DEEDS, W C R 6/11 27 X 180.13A

This subject property parcel consists of approximately 0.1 acres. The subject property is vacant, and suspect fill materials (uneven terrain), metal, paper, and plastic debris were noted throughout the property. No other remarkable features were noted on the subject property.

**1350 Bagley Street:** Ward/Item No: 6/000349-50

**Legal Description:** N BAGLEY S 150 FT 9 10 BLK 58 COL D BAKER FARM L17  
P272-3 DEEDS WCR 6/11 100 IRREG

This subject property parcel consists of approximately 0.4 acres. The subject property is vacant, and suspect fill materials (uneven terrain), paper and plastic debris were noted throughout the property. No other remarkable features were noted on the subject property. The zoning of this parcel as industrial use represents a recognized environmental condition to the subject property.

A driveway and commercial auto service center bounds the subject property to the north. Residential properties bound the subject property to the east and west. Bagley Street bounds the subject property to the south with residential properties beyond.

## **1.2 Previous Investigations**

The Traverse Group conducted a Phase I ESA of the subject property in accordance with ASTM Standard Practice E 1527-00. The Phase I ESA was completed on October 21, 2005. The Phase I ESA identified the following potential recognized environmental conditions in connection with the site:

- Suspect fill materials were noted throughout the subject property. The terrain of the subject property was observed to be uneven and large amounts of fill materials were observed on the ground surface. Brick foundations were observed on the southern portion of the subject property near Bagley Street. The presence of suspect fill materials on the subject property represents a recognized environmental condition to the subject property.

- The City of Detroit Buildings and Safety Engineering Department (BSED) records indicated that 1342 Bagley was used as a commercial parking lot from approximately 1949 until 1959. The use of this parcel (currently 1350 Bagley) as a commercial parking lot represents a recognized environmental condition to the subject property.
- The presence of a large private garage on the subject property from approximately 1950 through 1977, identified in local street directories and Sanborn® Fire Insurance Maps, represents a recognized environmental condition to the subject property based on the potential use of hydraulic oils, petroleum products, and other hazardous chemicals.
- Fire department files dated December 1924 and August 1955 indicated the presence of a 550 gallon gasoline underground storage tank (UST) on 1336 Bagley. The 1955 record indicated the tank was permanently-out-of-use and had been filled with an inert material. The presence of a UST on the subject property since at least 1924 represents a recognized environmental condition to the subject property.
- The zoning of the subject property parcel located at 1350 Bagley for industrial use represents a recognized environmental condition to the subject property.
- An auto service center is located adjacent to the north of the subject property. This service center was listed as a Resource Conservation and Recovery Act (RCRA) generator on the FirstSearch regulatory database. According to files obtained at the Michigan Department of Environmental Quality (MDEQ), violations were cited at this site for improper storage of hazardous materials. Fire Department files indicated the presence of a paint spray booth on this property from at least 1979 until at least 2001, as well as violations for poor housekeeping practices. Based on the proximity to the subject property, the historical and current use of hazardous chemicals, and violations for improper storage of hazardous materials, this service center represents a recognized environmental condition to the subject property.
- The presence of four 10,000-gallon USTs on 1301 Leverette (northern adjacent property) was identified in Fire Department records. According to the records, these USTs were removed in December 1988. The presence of USTs on the northern adjacent property represents a recognized environmental condition to the subject property.

- The northern adjacent property located at 1321 Leverette was identified in BSED records as having a 220-gallon tank installed in January 1948, and one 6,000-gallon UST installed in April 1948. These tanks represent a recognized environmental condition to the subject property.
- The 1897 Sanborn® Fire Insurance Map depicts storefronts north of Leverette Street including carpet weaving and upholstering and a blacksmith, wagon, and paint shop. The presence of these storefronts and a sausage factory north of the subject property represents a recognized environmental condition to the subject property due to the likely use of chemicals in these operations.
- The 1918 Sanborn® Fire Insurance Map depicts commercial businesses on the northern adjacent property including a roofing warehouse and 3<sup>rd</sup> Hand Furniture. Surrounding properties to the north include a Garage & Repair Shop, a storefront depicted as a laundry, and a storefront depicted as containing roofing material, paints, and tin scrap. The presence of these commercial businesses and storefronts to the north of the subject property represents a recognized environmental condition to the subject property.
- The presence of an auto sales, service, and storage facility on the northern adjacent property depicted on Sanborn® Fire Insurance Maps, on record at the City of Detroit BSED, identified in city directories, and during site reconnaissance from at least 1950 until the present represents a recognized environmental condition to the subject property.
- The various uses of the southern adjacent and surrounding properties identified in city directories and the City of Detroit BSED as a factory, warehouses, light manufacturing, and various commercial businesses from approximately 1911 until at least 1894 represents a recognized environmental condition to the subject property.
- The 1957 through 1991 Sanborn® Fire Insurance Maps depict the presence of a filling station on the northern surrounding property (1334 Leverette/1355 Michigan Avenue). The presence of this filling station represents a recognized environmental condition to the subject property.

## 2.0 FIELD INVESTIGATION

Prior to performing the fieldwork for the Phase II ESA, The Traverse Group developed a site-specific health and safety plan in accordance with requirements established by the Michigan Department of Public Health (Rule 325.52101-52137) and the Occupational Safety and Health Administration (29 CFR 1910.120). The Traverse Group also contacted MISS DIG (utility locating service) to identify buried utilities prior to conducting subsurface field activities.

To address recognized environmental conditions (RECs) identified by the Phase I ESA, the following activities were conducted: advancement of soil borings, soil sample collection, and laboratory analysis. The investigation was performed in accordance with our Phase II ESA Sampling and Analysis Plan (dated October 24, 2005 and approved by the EPA). The Phase II ESA and sample collection techniques used in the field are described below.

### 2.1 Soil Investigation

On January 26, 2006, three soil borings (GP-1, GP-2, and GP-3) were advanced at the subject property at the locations depicted on Figure 2.

Soil boring GP-1 was advanced in the northwest portion of the subject property to address potential impacts of the former presence of a garage located on the subject property, the historical presence of a UST on the subject property at 1336 Bagley Street, potential fill materials with unknown origins, current and historical use of the northern adjacent property as an auto service center, USTs identified on the northern adjacent property, and historical uses of the northern adjacent and surrounding properties for various commercial uses, a factory, and a filling station.

Soil boring GP-2 was advanced in the southeast portion of the subject property to address the potential impact from fill materials with unknown origins, the historical presence of a UST on the subject property at 1336 Bagley Street, the former presence of a garage located on the subject property, and the historical uses of the southern adjacent and surrounding properties as a factory, warehouses, various commercial businesses, and light manufacturing.

Soil boring GP-3 was advanced in the southwest portion of the subject property to assess potential impacts from fill materials with unknown origins, the industrial zoning of the subject property parcel located at 1350 Bagley Street, and the historical uses of the southern adjacent properties as a factory, warehouses, various commercial businesses, and light manufacturing.

The soil borings were advanced by Terra Probe Environmental of Ottawa Lake, Michigan, using a truck-mounted soil probing unit (Geoprobe®). The probing unit utilized direct push technology equipped with 4-foot long soil samplers lined with disposable acetate liners. The soil borings were advanced to an appropriate depth of 15 feet below grade (bg). Upon completion of the borings, they were backfilled with borehole cuttings.

Field measurements of volatile organics were collected using a photoionization detector (PID). PID readings for all soil samples were 0.0 parts per million (ppm), except for one reading of 1.1 ppm at GP-1 from 12 to 15 feet bg. A total of 24 soil samples were collected and field screened. Soil samples were obtained from a depth of 2 to 4 feet bg and 12 to 13 feet bg at GP-1, 2 to 4 feet bg and 8 to 10 feet bg at GP-2, and 4 to 6 feet bg and 8 to 10 feet bg at GP-3. Soil samples were collected and analyzed per Michigan Department of Environmental Quality (MDEQ) soil and groundwater sampling protocol. Soil samples submitted for laboratory analysis were analyzed for volatile organic compounds (VOCs) using USEPA Method 8260, semi-volatile organic compounds (SVOCs) using USEPA Method 8270, polychlorinated biphenyls (PCBs) using USEPA Method 8082, and Michigan 10 Metals using USEPA Method 6020. Analytical parameters at each location were selected based on contaminants typically associated with the specific recognized environmental condition identified.

Soil samples submitted for VOC analysis were collected by placing approximately 10g of soil into a 40 mL glass vial containing 10 mL of pre-weighed methanol according to USEPA Method 5035. Soil volume was estimated using a new, sterile, 10 mL syringe with an open end. Upon insertion of the soil into the methanol preserved vial, the vial was immediately capped, and the sample was shaken vigorously for approximately 30 seconds to disperse the soil sample into the methanol matrix.

### **3.0 INVESTIGATIVE AND ANALYTICAL FINDINGS**

#### **3.1 Soil and Groundwater Conditions**

Soils encountered at GP-1 (northwest portion of the subject property) generally consist of brown and gray clay with trace gravel to 15 feet bg, total depth explored. Soils encountered at GP-2 and GP-3 (southern portion of the subject property) generally consist of moist to wet, brown sand with trace gravel, underlain by brown and gray clay with trace gravel, underlain by firm gray clay to 15 feet bg, total depth explored. The specific conditions encountered at each location are described in the boring logs (**Appendix A**).

Groundwater was not encountered during the subsurface investigation. Groundwater is generally not used in the area of the subject property. The Detroit Water and Sewerage Department provides drinking water to the subject property and surrounding area.

#### **3.2 Soil Analytical Results**

Soil samples collected for laboratory analysis during the Phase II ESA field activities were submitted to RTI Laboratories, Inc. of Livonia, Michigan. The laboratory analytical results indicated that PCBs, VOCs, and SVOCs were not detected at concentrations greater than the MDEQ Residential Cleanup Criteria for all samples analyzed. Analytical results for metals analysis indicated the presence of total chromium above the Groundwater/Surface Water Interface Protection Criteria (GSI) in all samples collected. Selenium was detected above GSI in GP-2 (8 to 10 feet bg) and silver was detected above GSI in GP-3 (8 to 10 feet bg). Arsenic and total lead (calculated) analysis revealed detections above the Drinking Water Protection and Direct Contact Criterion (DCC) in GP-1 (12 to 13 feet bg).

The applicable Residential Cleanup Criteria values are identified along with a summary of laboratory analytical results in **Tables 1 through 3**. Laboratory data sheets, chain of custody, and QA/QC documentation are included in **Appendix B**.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

Soil analytical results indicate that soil sample concentrations of PCBs, VOCs, and SVOCs are less than MDLs and/or the MDEQ Residential Cleanup Criteria.

As defined by Section 20107a of Part 201 of Natural Resources Environmental Protection Act (NREPA), 1994 PA 451, as amended, the subject site is an environmental facility due to soil concentrations exceeding the MDEQ Residential Cleanup Criteria for total chromium, selenium, silver, total lead (calculated), and arsenic.

Section 20107a of Part 201 specifically states that the “owners/operators of contaminated property are required to develop and maintain a Due Care Plan” as part of due care obligations. A Due Care Plan is a document required by the MDEQ that describes how the property owner will meet the following primary obligations:

- Undertake measures to prevent exacerbation of existing contamination;
- Undertake actions necessary to mitigate unacceptable exposure to hazardous substances;
- Exercise due care by undertake response activity necessary to mitigate fire and explosion hazards due to hazardous substances;
- Allow for the intended use of the property in a manner that protects the public health and safety; and
- Take reasonable precautions against the foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.

The due care plan must be disclosed to any potentially affected third parties and maintained onsite.

## 5.0 QUALIFICATIONS

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations

made by others based on the field exploration data presented in this report. It is noted that all environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. The results and conclusions presented herein are based solely on the aforementioned field screening techniques and field observations. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties.

Tables

## **TABLES**

**Table 1**  
**Summary of Soil Sample Analysis - VOCs**  
**Corktown Development-Area 4**  
**Detroit, Michigan**

Chemical	Chemical Abstract Service (CAS) Number	Residential and Commercial I Criteria																		Equipment Blank	MDL (µg/kg)
		Drinking Water Protection Criteria (µg/kg)	Groundwater/Surface Water Interface Protection Criteria (µg/kg)	Soil Volatilization to Indoor Air Inhalation Criteria (µg/kg)	Infinite Source Volatile Soil Inhalation Criteria (VSIC) (µg/kg)	Particulate Soil Inhalation Criteria (µg/kg)	Direct Contact Criteria (µg/kg)	Soil Saturation Concentration Screening Levels (µg/kg)	Most Stringent Applicable Criteria (µg/kg)	GP-1 (2-4')	GP-1 (12-13')	GP-2 (2-4')	DUP-1 (2-4')	GP-2 (8-10')	GP-3 (4-6')	GP-3 (8-10')	1/26/06	1/26/06	1/26/06	1/26/06	
		Date Collected	PID Reading (ppmv)																		
<b>VOCs (EPA Method 8260)</b>																					
Acetone (I)	67641	15,000	34,000	110,000,000(C)	130,000,000	390,000,000,000	23,000,000	110,000,000	15,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,000
Acrolein(I)	107028	2,400	NA	410	310	1,300,000	3,600,000	23,000,000	310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
Acrylonitrile (I)	107131	100(M);52	100(M,X);98	6,600	5,000	46,000,000	16,000	8,300,000	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Benzene (I)	71432	100	4,000(X)	1,600	13,000	380,000,000	180,000	400,000	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Bromobenzene (I)	108861	550	NA	310,000	450,000	530,000,000	540,000	760,000	550	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Bromoform	74975	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Bromochloromethane	75274	1,600(W)	ID	1,200	9,100	84,000,000	110,000	1,500,000	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Bromodichloromethane	75252	1,600(W)	ID	150,000	900,000	2,800,000,000	820,000	870,000	150,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Bromomethane	74839	200	700	860	11,000	330,000,000	320,000	2,200,000	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	750
2-Butanone (MEK) (I)	78933	260,000	44,000	27,000,000(C)	29,000,000	67,000,000,000	27,000,000(C,DD)	27,000,000	44,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
n-Butylbenzene	104518	1,600	ID	ID	ID	ID	2,500,000	10,000,000	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
sec-Butylbenzene	135988	1,600	ID	ID	ID	ID	2,500,000	10,000,000	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
tert-Butylbenzene (I)	98066	1,600	NA	ID	ID	ID	2,500,000	10,000,000	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
Carbon disulfide (I,R)	75150	16,000	ID	76,000	1,300,000	47,000,000,000	280,000(C,DD)	280,000	16,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Carbon tetrachloride	56235	100	900(X)	190	3,500	130,000,000	96,000	390,000	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Chlorobenzene (I)	108907	2,000	940	120,000	770,000	4,700,000,000	260,000(C)	260,000	940	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Chlorodibromomethane	124481	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
Chloroethane	75003	8,600	ID	950,000(C)	30,000,000	670,000,000,000	950,000(C)	950,000	8,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
2-Chloroethyl vinyl ether	110758	ID	NA	ID	ID	ID	ID	ID	1,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Chloroform	67663	1,600(W)	3,400(X)	7,200	45,000	1,300,000,000	1,200,000	1,500,000	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
Chloromethane (I)	74873	5,200	ID	2,300	40,000	4,900,000,000	1,100,000(C)	1,100,000	2,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
2-Chlorotoluene (I)	95498	3,300	NA	270,000	1,200,000	4,700,000,000	500,000(C)	500,000	3,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
4-Chlorotoluene	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
1,2-Dibromo-3-chloropropane	96128	10(M);4.0	1,200(C)	13,000	13,000	1,200(C)	1,200	10(M);4.0	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Dibromochloromethane	124481	1,600(W)	ID	3,900	24,000	130,000,000	110,000	610,000	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
Dibromomethane	74953	1,600	NA	ID	ID	ID	2,000,000(C)	2,000,000	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
1,2-Dichlorobenzene	95501	14,000	360	210,000(C)	39,000,000	100,000,000,000	210,000(C)	210,000	360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
1,3-Dichlorobenzene	541731	170	1,100	ID	ID	ID	170,000(C)	170,000	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
1,4-Dichlorobenzene	106467	1,700	290	19,000	77,000	450,000,000	400,000	NA	290	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
trans-1,4-Dichloro-2-butene	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
Dichlorodifluoromethane	75718	95,000	ID	900,000	53,000,000	3,300,000,000,000	1,000,000(C)	1,000,000	95,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
1,1-Dichloroethane	75343	18,000	15,000	230,000	2,100,000	33,000,000,000	890,000(C)	890,000	15,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
1,2-Dichloroethane (I)	107062	100	7,200(X)	2,100	6,200	120,000,000	91,000	1,200,000	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
1,1-Dichloroethene (I)	75354	140	1,300(X)	62	1,100	62,000,000															

**Table 1**  
**Summary of Soil Sample Analysis - VOCs**  
**Corktown Development-Area 4**  
**Detroit, Michigan**

Chemical	Residential and Commercial I Criteria																		Equipment Blank	MDL (µg/kg)
	Chemical Abstract Service (CAS) Number	Drinking Water Protection Criteria (µg/kg)	Groundwater/Surface Water Interface Protection Criteria (µg/kg)	Soil Volatilization to Indoor Air Inhalation Criteria (µg/kg)	Infinite Source Volatile Soil Inhalation Criteria (VSIC) (µg/kg)	Particulate Soil Inhalation Criteria (µg/kg)	Direct Contact Criteria (µg/kg)	Soil Saturation Concentration Screening Levels (µg/kg)	Most Stringent Applicable Criteria (µg/kg)	GP-1 (2-4')	GP-1 (12-13')	GP-2 (2-4')	DUP-1 (2-4')	GP-2 (8-10')	GP-3 (4-6')	GP-3 (8-10')				
	Date Collected	PID Reading (ppmv)								1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06			
VOCs (EPA Method 8260)										0.0	1.1	0.0	0.0	0.0	0.0	0.0	NA			
Isopropylbenzene	98828	91,000	ID	390,000(C)	1,700,000	5,800,000,000	390,000(C)	390,000	91,000	ND	ND	ND	ND	ND	ND	ND	ND	250		
Methyl Iodide	74884	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	100		
2-Methylnaphthalene	91576	57,000	ID	ID	ID	ID	8,100,000	NA	57,000	ND	ND	ND	ND	ND	ND	ND	ND	330		
Methylene chloride	75092	100	19,000(X)	45,000	210,000	6,600,000,000	1,300,000	2,300,000	100	ND	ND	ND	ND	ND	ND	ND	ND	100		
4-Methyl-2-pentanone (MIBK) (I)	108101	36,000	ID	2,700,000(C)	45,000,000	140,000,000,000	2,700,000(C)	2,700,000	36,000	ND	ND	ND	ND	ND	ND	ND	ND	2500		
Methyl tert-butyl ether (MTBE)	1634044	800	15,000(X)	5,900,000(C)	25,000,000	200,000,000,000	1,500,000	5,900,000	800	ND	ND	ND	ND	ND	ND	ND	ND	330		
Naphthalene	91203	35,000	870	250,000	300,000	200,000,000	16,000,000	NA	870	ND	ND	ND	ND	ND	ND	ND	ND	100		
n-Propylbenzene (I)	103651	1,600	NA	ID	ID	1,300,000,000	2,500,000	10,000,000	1,600	ND	ND	ND	ND	ND	ND	ND	ND	50		
Styrene	100425	2,700	2,200	250,000	970,000	5,500,000,000	400,000	520,000	2,200	ND	ND	ND	ND	ND	ND	ND	ND	100		
1,1,1,2-Tetrachloroethane	630206	1,500	ID(X)	6,200	36,000	420,000,000	440,000(C)	440,000	1,500	ND	ND	ND	ND	ND	ND	ND	ND	50		
1,1,2,2-Tetrachloroethane	79345	170	1,600(X)	4,300	10,000	54,000,000	53,000	870,000	170	ND	ND	ND	ND	ND	ND	ND	ND	50		
Tetrachloroethene	127184	100	900(X)	11,000	180,000	5,400,000,000	88,000(C)	88,000	100	ND	ND	ND	ND	ND	ND	ND	ND	100		
Toluene (I)	108883	16,000	2,800	250,000(C)	2,800,000	27,000,000,000	250,000(C)	250,000	2,800	ND	140	64	ND	ND	ND	ND	ND	50		
1,2,3-Trichlorobenzene	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330		
1,2,4-Trichlorobenzene	120821	4,200	1,800	1,100,000(C)	28,000,000	25,000,000,000	990,000(DD)	1,100,000	1,800	ND	ND	ND	ND	ND	ND	ND	ND	50		
1,1,1-Trichloroethane	71556	4,000	4,000	250,000	3,800,000	67,000,000,000	460,000(C)	460,000	4,000	ND	ND	ND	ND	ND	ND	ND	ND	50		
1,1,2-Trichloroethane	79005	100	6,600(X)	4,600	17,000	190,000,000	180,000	920,000	100	ND	ND	ND	ND	ND	ND	ND	ND	100		
1,2,3-Trichloropropane	96184	840	NA	ID	ID	830,000(C)	830,000	840	ND	ND	ND	ND	ND	ND	ND	ND	ND	50		
Trichloroethene	79016	100	4,000(X)	7,100	78,000	1,800,000,000	500,000(C,DD)	500,000	100	ND	ND	ND	ND	ND	ND	ND	ND	50		
Trichlorofluoromethane	75694	52,000	NA	560,000(C)	92,000,000	3,800,000,000,000	560,000(C)	560,000	52,000	ND	ND	ND	ND	ND	ND	ND	ND	100		
1,2,4-Trimethylbenzene (I)	95636	2,100	570	110,000(C)	21,000,000	82,000,000,000	110,000(C)	110,000	570	ND	ND	ND	ND	ND	ND	ND	ND	100		
1,3,5-Trimethylbenzene (I)	108678	1,800	1,100	94,000(C)	16,000,000	82,000,000,000	94,000(C)	94,000	1,100	ND	ND	ND	ND	ND	ND	ND	ND	5000		
Vinyl acetate (I)	108054	13,000	NA	790,000	1,700,000	13,000,000,000	2,400,000(C,DD)	2,400,000	13,000	ND	ND	ND	ND	ND	ND	ND	ND	40		
Vinyl chloride	75014	40	300	270	4,200	350,000,000	3,800	490,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND		
o-Xylene	95476	5,600	700	150,000(C)	46,000,000	290,000,000,000	150,000(C)	150,000	700	ND	ND	57	ND	ND	ND	ND	ND	150		
Xylenes (I)	1330207	5,600	700	150,000(C)	46,000,000	290,000,000,000	150,000(C)	150,000	700	ND	ND	ND	ND	ND	ND	ND	ND			

AD=Hazardous substance causes developmental effects. Residential and Commercial I DCC are protective of both prenatal and postnatal exposure. Industrial and Commercial II, III, & IV DCC are protective for an adult pregnant receptor. C=Value presented is a screening level based on the chemical-specific generic soil saturation concentration (C<sub>sat</sub>) since the calculated risk-based criterion is greater than C<sub>sat</sub>. I=Hazardous substance may exhibit the characteristic of ignitability as defined in 40 CFR 261.21. ID=Inadequate date to develop criterion. J=Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria. M=Calculated criterion is below the analytical target detection limit (TDL), therefore, the criterion defaults to the TDL. NA=Criterion or value is not available or, as is the case for C<sub>sat</sub>, not applicable. ND=Analyte not detected above method detection limits (MDL). NR=Analysis for this parameter was not requested. R=Hazardous substance may exhibit the characteristic of reactivity as defined in 40 CFR 261.23. W=Concentrations of trihalomethanes in soil must be added together to determine compliance with the DWPC of 2,000 µg/kg. X=The GSI criterion shown is not protective for surface water that is used as a drinking water source. \*\*=Hazardous substance does not have criteria published in Operational Memorandum No. 18.

Where two numbers are present in a cell, the first number is the Target Detection Limit (TDL) and the second number is the risk-based value

**Table 2**  
**Summary of Soil Sample Analysis - SVOCs**  
**Corktown Development-Area 4**  
**Detroit, Michigan**

Chemical	Residential and Commercial I Criteria																	MDL (µg/kg)
	Chemical Abstract Service (CAS) Number	Drinking Water Protection Criteria (µg/kg)	Groundwater/Surface Water		Soil Volatilization to Indoor Air Inhalation Criteria (µg/kg)	Infinite Source Volatile Soil Inhalation Criteria (VSIC) (µg/kg)		Particulate Soil Inhalation Criteria (µg/kg)	Direct Contact Criteria (µg/kg)	Soil Saturation Concentration Screening Levels (µg/kg)	Most Stringent Applicable Criteria (µg/kg)	GP-1 (2-4')	GP-1 (12-13')	GP-2 (2-4')	GP-2 (8-10')	GP-3 (4-6')	GP-3 (8-10')	
			Interface Protection Criteria (µg/kg)	Inhalation Criteria (µg/kg)		GP-1 (2-4')	GP-1 (12-13')					0.0	1.1	0.0	0.0	0.0	0.0	
Date Collected												1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	
PID Reading (ppmv)												0.0	1.1	0.0	0.0	0.0	0.0	
SVOCs (EPA Method 8270)																		
Acenaphthene	83329	300,000	4,400	190,000,000	81,000,000	14,000,000,000	41,000,000	NA	4,400	ND	ND	ND	ND	ND	ND	ND	ND	330
Acenaphthylene	208968	5,900	ID	1,600,000	2,200,000	2,300,000,000	1,600,000	NA	5,900	ND	ND	ND	ND	ND	ND	ND	ND	330
Aniline	62533	1,100	330(M);80	NLV	NLV	67,000,000	330,000	4,500,000	330	ND	ND	ND	ND	ND	ND	ND	ND	330
Anthracene	120127	41,000	ID	1,000,000,000(D)	1,400,000,000	67,000,000,000	230,000,000	NA	41,000	ND	ND	ND	ND	ND	ND	ND	ND	1000
Benzidine	92875	1,000(M);6.0	ID	NLV	NLV	46,000	1,000(M);23	NA	1,000	ND	ND	ND	ND	ND	ND	ND	ND	3300
Benzoic Acid	65850	640,000	NA	NLV	NLV	ID	990,000,000	NA	640,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Benz(a)anthracene(Q)	56553	NLL	NLL	NLV	NLV	ID	20,000	NA	20,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Benzo(b)fluoranthene(Q)	205992	NLL	NLL	ID	ID	ID	20,000	NA	20,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Benzo(k)fluoranthene(Q)	207089	NLL	NLL	NLV	NLV	ID	200,000	NA	200,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Benzo(g,h,i)perylene	191242	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA	2,500,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Benzo(a)pyrene(Q)	50328	NLL	NLL	NLV	NLV	1,500,000	2,000	NA	2,000	ND	ND	ND	ND	ND	ND	ND	ND	3300
Benzyl alcohol	100516	200,000	NA	NLV	NLV	330,000,000,000	5,800,000(C)	5,800,000	200,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Bis(2-chloroethoxy)ethane	112265	ID	ID	NLV	NLV	ID	ID	2,700,000	2,700,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Bis(2-chloroethoxy)methane	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	100
Bis(2-chloroethyl)ether (I)	111444	100	300	8,300	3,800	9,400,000	13,000	2,200,000	100	ND	ND	ND	ND	ND	ND	ND	ND	330
Bis(2-chloroisopropyl)ether	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	300
Bis(2-ethylhexyl)adipate	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
Bis(2-ethylhexyl)phthalate	117817	NLL	NLL	NLV	NLV	700,000,000	2,800,000	10,000,000	2,800,000	ND	ND	ND	ND	ND	ND	ND	ND	330
4-Bromophenyl phenyl ether	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
Butyl benzyl phthalate	85687	310,000(C)	26,000(X)	NLV	NLV	47,000,000,000	310,000(C)	310,000	26,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Carbazole	86748	9,400	1,100	NLV	NLV	ID	530,000	NA	1,100	ND	ND	ND	ND	ND	ND	ND	ND	330
4-Chloroaniline	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
2-Chloronaphthalene	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
4-Chloro-3-methylphenol	59507	5,800	280	NLV	NLV	ID	4,500,000	NA	280	ND	ND	ND	ND	ND	ND	ND	ND	280
2-Chlorophenol	95578	900	440	ID	ID	ID	1,400,000	19,000,000	440	ND	ND	ND	ND	ND	ND	ND	ND	330
3&4-Chlorophenol	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	300
4-Chlorophenyl phenyl ether	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
Chrysene (Q)	218019	NLL	NLL	ID	ID	ID	2,000,000	NA	2,000,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Dibenzo(a,h)anthracene(Q)	53703	NLL	NLL	NLV	NLV	ID	2,000	NA	2,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Dibenzofuran	132649	ID	1,700	ID	ID	ID	ID	NA	1,700	ND	ND	ND	ND	ND	ND	ND	ND	330
Di-n-butyl phthalate	84742	760,000(C)	11,000	NLV	NLV	3,300,000,000	760,000(C)	760,000	11,000	ND	ND	ND	ND	ND	ND	ND	ND	300
1,2-Dichlorobenzene	95501	14,000	360	210,000(C)	39,000,000	100,000,000,000	210,000(C)	210,000	360	ND	ND	ND	ND	ND	ND	ND	ND	300
1,3-Dichlorobenzene	541731	170	1,100	ID	ID	ID	170,000(C)	170,000	170	ND	ND	ND	ND	ND	ND	ND	ND	300
1,4-Dichlorobenzene	106467	1,700	290	19,000	77,000	450,000,000	400,000	NA	290	ND	ND	ND	ND	ND	ND	ND	ND	2,000
3,3'-Dichlorobenzidine	91941	2,000(M,X);510	2,000(M,X);510	NLV	NLV	6,500,000	6,600	NA	2,000	ND	ND	ND	ND	ND	ND	ND	ND	330
2,3-Dichlorophenol	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
2,4-Dichlorophenol	120832	1,500	380	NLV	NLV	5,100,000,000	660,000(DD)	1,800,000	380	ND	ND	ND	ND	ND	ND	ND	ND	300
2,6-Dichlorophenol	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	300
Dicyclohexyl phthalate	84617	ID	NA	ID	ID	ID	ID	NA	ID	ND	ND	ND	ND	ND	ND	ND	ND	300
Diethyl phthalate	84662	110,000	2,200	NLV	NLV	3,300,000,000	740,000(C)	740,000	2,200	ND	ND	ND	ND	ND	ND	ND	ND	300

**Table 2**  
**Summary of Soil Sample Analysis - SVOCs**  
**Corktown Development-Area 4**  
**Detroit, Michigan**

Chemical	Residential and Commercial I Criteria																	
	Chemical Abstract Service (CAS) Number	Drinking Water Protection Criteria ( $\mu\text{g}/\text{kg}$ )	Groundwater/Surface Water Interface Protection Criteria ( $\mu\text{g}/\text{kg}$ )	Soil Volatilization to Indoor Air Inhalation Criteria ( $\mu\text{g}/\text{kg}$ )	Infinite Source Volatile Soil Inhalation Criteria (VSIC) ( $\mu\text{g}/\text{kg}$ )	Particulate Soil Inhalation Criteria ( $\mu\text{g}/\text{kg}$ )	Direct Contact Criteria ( $\mu\text{g}/\text{kg}$ )	Soil Saturation Concentration Screening Levels ( $\mu\text{g}/\text{kg}$ )	Most Stringent Applicable Criteria ( $\mu\text{g}/\text{kg}$ )	GP-1 (2-4')		GP-2 (2-4')		GP-3 (4-6')		GP-4 (8-10')		MDL ( $\mu\text{g}/\text{kg}$ )
										1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	
Date Collected										0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	
PID Reading (ppmv)																		
SVOCs (EPA Method 8270)																		
2,4-Dinitrophenol	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	830
2,4-Dinitrotoluene	121142	430	NA	NLV	NLV	16,000,000	48,000	NA	430	ND	ND	ND	ND	ND	ND	ND	ND	330
2,6-Dinitrotoluene	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
Di-n-octyl phthalate	117840	100,000,000	ID	NLV	NLV	ID	6,900,000	140,000,000	6,900,000	ND	ND	ND	ND	ND	ND	ND	ND	330
1,2-Diphenylhydrazine	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
Fluoranthene	206440	730,000	5,500	1,000,000,000(D)	740,000,000	9,300,000,000	46,000,000	NA	5,500	ND	ND	ND	ND	ND	ND	ND	ND	330
Fluorene	86737	390,000	5,300	580,000,000	130,000,000	9,300,000,000	27,000,000	NA	5,300	ND	ND	ND	ND	ND	ND	ND	ND	330
Hexachlorobenzene (C-66)	118741	1,800	350	41,000	17,000	6,800,000	100,000	350,000	91	ND	ND	ND	ND	ND	ND	ND	ND	50
Hexachlorobutadiene (C-46)	87683	26,000	91	130,000	130,000	140,000,000	720,000(C)	720,000	30,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Hexachlorocyclopentadiene (C-56)	77474	320,000	ID	30,000	50,000	13,000,000	230,000,000	NA	430	ND	ND	ND	ND	ND	ND	ND	ND	300
Hexachloroethane	67721	430	1,800(X)	40,000	550,000	230,000,000	20,000	NA	20,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Indeno(1,2,3-cd)pyrene(Q)	193395	NLL	NLL	NLV	NLV	12,000,000,000	2,400,000(C)	2,400,000	15,000	ND	ND	ND	ND	ND	ND	ND	ND	330
Isophorone	78591	15,000	11,000(X)	NLV	ID	ID	8,100,000	NA	57,000	ND	ND	ND	ND	ND	ND	ND	ND	330
2-Methylnaphthalene	91576	57,000	ID	ID	NLV	6,700,000,000	11,000,000	NA	1,400	ND	ND	ND	ND	ND	ND	ND	ND	300
2-Methylphenol (o-Cresol) (J)	1319773	7,400	1,400	NLV	NLV	6,700,000,000	11,000,000	NA	1,400	ND	ND	ND	ND	ND	ND	ND	ND	300
3-Methylphenol (m-Cresol) (J)	1319773	7,400	1,400	NLV	NLV	6,700,000,000	11,000,000	NA	1,400	ND	ND	ND	ND	ND	ND	ND	ND	300
4-Methylphenol (p-Cresol) (J)	1319773	7,400	1,400	NLV	NLV	6,700,000,000	11,000,000	NA	870	ND	ND	ND	ND	ND	ND	ND	ND	330
Naphthalene	91203	35,000	870	250,000	300,000	200,000,000	16,000,000	NA	330	ND	ND	ND	ND	ND	ND	ND	ND	830
2-Nitroaniline	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	830
3-Nitroaniline	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	830
4-Nitroaniline	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
Nitrobenzene (I)	98953	330(M);68	3,600(X)	91,000	54,000	47,000,000	100,000	490,000	330	ND	ND	ND	ND	ND	ND	ND	ND	330
2-Nitrophenol	88755	400	ID	NLV	NLV	ID	630,000	NA	400	ND	ND	ND	ND	ND	ND	ND	ND	830
4-Nitrophenol	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
N-Nitrosodimethylamine	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	330
N-Nitrosodiphenylamine	86306	5,400	NA	NLV	NLV	ID	1,700,000	NA	5,400	ND	ND	ND	ND	ND	ND	ND	ND	330
N-Nitroso-di-n-propylamine	621647	330(M);100	NA	NLV	NLV	1,600,000	1,200	1,500,000	330	ND	ND	ND	ND	ND	ND	ND	ND	330
N-Nitrosophenylamine	**	**	**	**	**	**	**	**	**	ND	ND	ND	ND	ND	ND	ND	ND	20
Pentachlorophenol	87865	22	(G,X)	NLV	NLV	100,000,000	90,000	NA	22	ND	ND	ND	ND	ND	ND	ND	ND	330
Phenanthrene	85018	56,000	5,300	2,800,000	160,000	6,700,000	1,600,000	NA	5,300	ND	ND	ND	ND	ND	ND	ND	ND	330
Phenol	108952	88,000	4,200	NLV	NLV	40,000,000,000	12,000,000(C,DD)	12,000,000	4,200	ND	ND	ND	ND	ND	ND	ND	ND	330
Pyrene	129000	480,000	ID	1,000,000,000(D)	650,000,000	6,700,000,000	29,000,000	NA	480,000	ND	ND	ND	ND	ND	ND	ND	ND	300
Pyridine (I)	110861	400	NA	1,100	8,200	230,000,000	37,000(C)	37,000	400	ND	ND	ND	ND	ND	ND	ND	ND	300
1,2,4-Trichlorobenzene	120821	4,200	1,800	1,100,000(C)	28,000,000	25,000,000,000	990,000(DD)	1,100,000	1,800	ND	ND	ND	ND	ND	ND	ND	ND	330
2,4,5-Trichlorophenol	95954	39,000	NA	NLV	23,000,000,000	23,000,000	NA	39,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	330
2,4,6-Trichlorophenol	88062	2,400	NA	NLV	NLV	1,000,000,000	710,000	NA	2,400	ND	ND	ND	ND	ND	ND	ND	ND	330

B=Background, as defined in Rule 299.5701(c), may be substituted if higher than the calculated cleanup criteria. D=Calculated criterion exceeds 100%; hence, it is reduced to 100% (i.e., 1.0E+9 ppb). G=GSI criterion is pH or water hardness dependent. H=Valence-specific chromium data (Cr III and Cr VI) must be compared to the corresponding valence-specific cleanup criteria. If analytical data are provided for "total" chromium only, then values for Cr VI must be applied as the cleanup criteria. ID=Inade

**Table 3**  
**Summary of Soil Sample Analysis - Metals and PCBs**  
**Corktown Development-Area 4**  
**Detroit, Michigan**

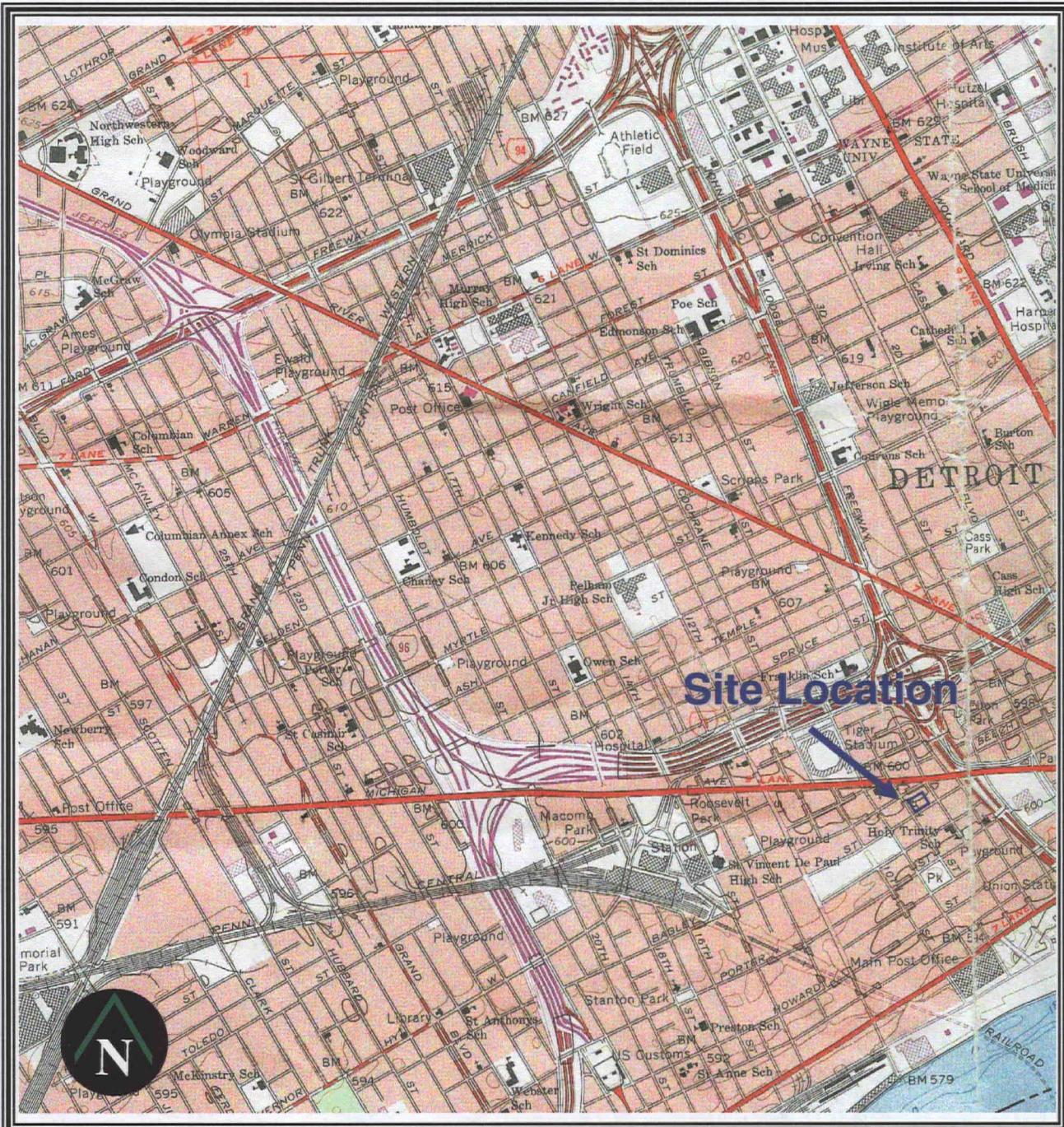
Chemical	Residential and Commercial I Criteria																	
	Chemical Abstract Service (CAS) Number	Statewide Default Background Levels ( $\mu\text{g/kg}$ )	Drinking Water Protection Criteria ( $\mu\text{g/kg}$ )	Groundwater/Surface Water Interface Protection Criteria ( $\mu\text{g/kg}$ )	Soil Volatilization to Indoor Air Inhalation Criteria ( $\mu\text{g/kg}$ )	Infinite Source Volatile Soil Inhalation Criteria (VSIC) ( $\mu\text{g/kg}$ )	Particulate Soil Inhalation Criteria ( $\mu\text{g/kg}$ )	Direct Contact Criteria ( $\mu\text{g/kg}$ )	Soil Saturation Concentration Screening Levels ( $\mu\text{g/kg}$ )	Most Stringent Applicable Criteria ( $\mu\text{g/kg}$ )	GP-1 (2-4')	GP-1 (12-13')	GP-2 (2-4')	GP-2 DUP-1 (2-4')	GP-2 (8-10')	GP-3 (4-6')	GP-3 (8-10')	MDL ( $\mu\text{g/kg}$ )
	Date Collected										1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	1/26/06	
<b>PID Reading (ppmv)</b>											0.0	1.1	0.0	0.0	0.0	0.0	0.0	
<b>METALS (EPA Method 6020)</b>																		
Arsenic	7440382	5,800	23,000	70,000(X)	NLV	NLV	720,000	7,600	NA	7,600	7,300	<b>8,600</b>	1,500	1,600	3,200	250	5,500	100
Barium (B)	7440393	75,000	1,300,000	(G,X)	NLV	NLV	330,000,000	37,000,000	NA	1,300,000	68,000	43,000	25,000	35,000	24,000	18,000	40,000	1000
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NLV	1,700,000	550,000	NA	6,000	680	510 ND	ND	360 ND	500	200		
Chromium (Total) (B,H)	18540299	18,000	30,000	3,300	NLV	NLV	260,000	2,500,000	NA	3,300	<b>20,000</b>	<b>16,000</b>	<b>6,000</b>	<b>10,000</b>	<b>14,000</b>	<b>8,700</b>	<b>18,000</b>	2,000
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NLV	130,000,000	20,000,000	NA	5,800,000	28,000	26,000	11,000	11,000	22,000	9,800	25,000	1,000
Lead , Total (Calculated) (B)	7439921	21,000	700,000	(G,X)	NLV	NLV	100,000,000	400,000	NA	400,000	13,000	<b>460,000</b>	210,000	3,400	9,500	9,600	12,000	1,000
Mercury (Total) (B,Z)	varies	130	1,700	50(M);1.2	48,000	52,000	20,000,000	160,000	NA	50	19 ND	41	43	26 ND	ND	50		
Selenium (B)	7782492	410	4,000	400	NLV	NLV	130,000,000	2,600,000	NA	400 ND	ND	ND	ND	ND	ND	ND	200	
Silver (B)	7440224	1,000	4,500	100(M);27	NLV	NLV	6,700,000	2,500,000	NA	100 ND	ND	ND	ND	ND	ND	ND	<b>160</b>	100
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NLV	ID	170,000,000	NA	2,400,000	52,000	53,000	30,000	25,000	38,000	20,000	53,000	1,000
<b>PCBs (EPA Method 8082)</b>																		
PCBs (J,T)	1336363	NA	NLL	NLL	3,000,000	240,000	5,200,000	(T)	NA	240,000	ND	ND	NR	NR	NR	NR	NR	330

B=Background, as defined in Rule 299.5701(c), may be substituted if higher than the calculated cleanup criteria. D=Calculated criterion exceeds 100%; hence, it is reduced to 100% (i.e., 1.0E+9 ppb).  
G=GSI criterion is pH or water hardness dependent. H=Valence-specific chromium data (Cr III and Cr VI) must be compared to the corresponding valence-specific cleanup criteria. If analytical data are provided for "total" chromium only, then values for Cr VI must be applied as the cleanup criteria. ID=Inadequate date to develop criterion. J=Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria. M=Calculated criterion is below the analytical target detection limit (TDL), therefore, the criterion defaults to the TDL. NA=Criterion or value is not available or, as is the case for Csat, not applicable. ND=Analyte not detected above method detection limits. NLL=Hazardous substance is not likely to leach under most soil conditions. NLV=Hazardous substance is not likely to volatilize under most conditions. NR=Analysis of the sample for this parameter was not requested. Q=Criteria for carcinogenic polycyclic aromatic hydrocarbons (PNAs) were developed using "relative potential potencies" (RPPs) to benzo(a)pyrene. T=Refer to the Toxic Substances Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended to determine the applicability of TSCA cleanup standards. Use Part 201 soil direct contact criteria where TSCA standards are not applicable. X=The GSI criterion shown is not protective for surface water that is used as a drinking water source.

Where two numbers are present in a cell, the first number is the Target Detection Limit (TDL) and the second number is the risk-based value  
Highlighted and shaded values exceed one or more listed Cleanup Criteria.

*Figures.*

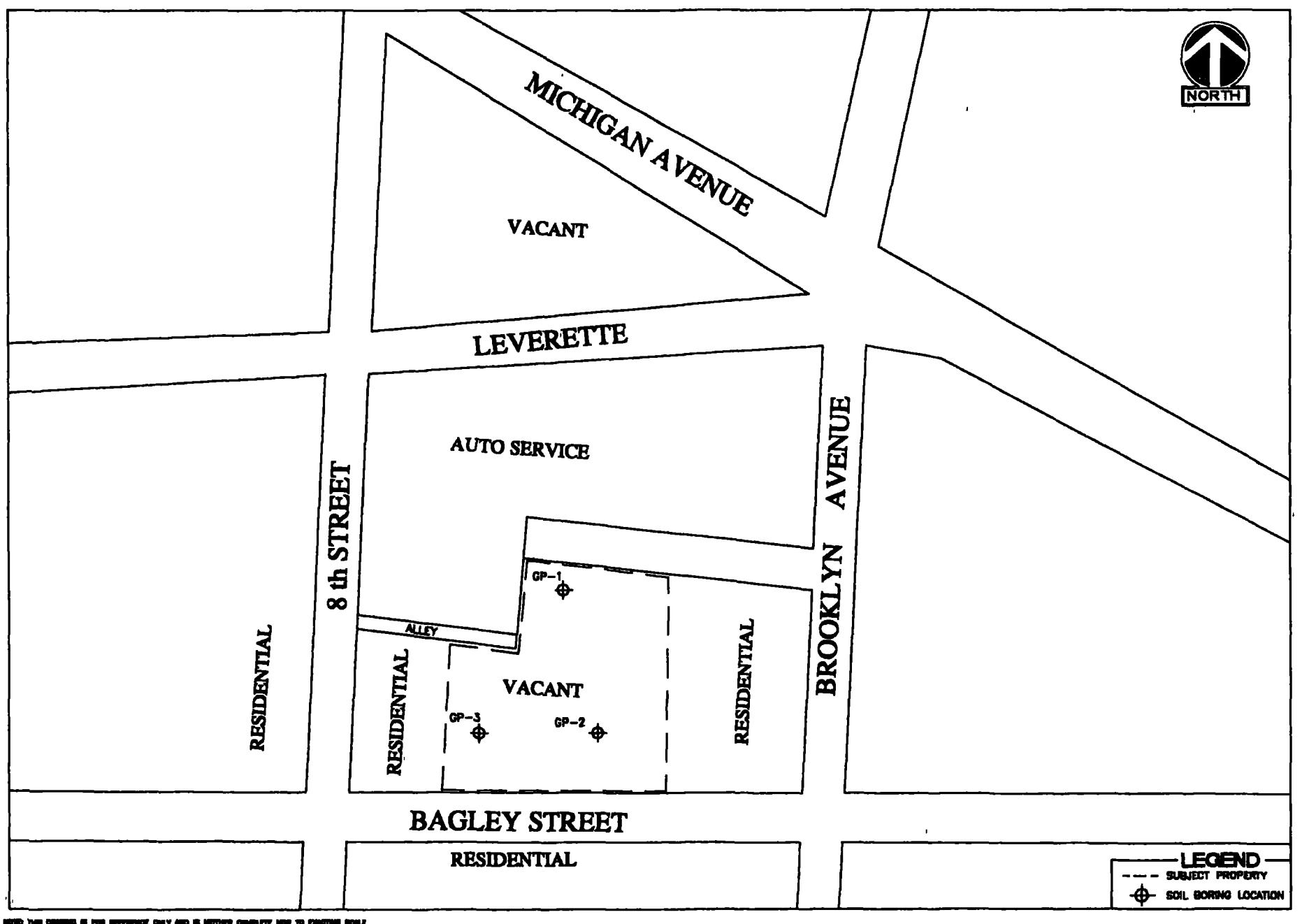
## **FIGURES**



Taken from the 1968, Detroit, Michigan 7.5 Series U.S.G.S.  
Topographic Quadrangle, photorevised 1973 and 1980



**FIGURE 1**  
**SITE LOCATION AND TOPOGRAPHIC MAP**  
**CORKTOWN DEVELOPMENT – AREA 4**  
**1336 AND 1342-1350 BAGLEY STREET**  
**DETROIT, MICHIGAN**



*Appendix A*

**APPENDIX A**  
**SOIL BORING LOGS**



THE  
TRAVERSE  
GROUP

## LOG OF BORING GP-1

(Page 1 of 1)

Corktown Development-Area 4 1336 and 1342-1350 Bagley Street Detroit, Michigan			Date Drilled Driller Drilling Method Sampling Method TGI Representative	January 26, 2006 Terra Probe Environmental Geoprobe Macrocore DPietrzak	Logged By DPietrzak	
Depth in Feet	USCS	GRAPHIC	DESCRIPTION	% Re- covery	PID (ppmv)	REMARKS
0	SP		Brown, gravelly SAND, dry			
	SP		Black, gravelly SAND, trace clay			Soil Samples
2	CL		Brown and gray, mottled, CLAY, trace gravel	95	0 0	Collected soil sample GP-1 from 2-4' bg and 12-13' bg
				0 0		Boring abandoned with native soil to grade
4	FL		Brick	100	0 0	No groundwater encountered
			Brown and gray, mottled, CLAY, trace gravel	0 0		
6				50	0 0	
8	CL			0 0		
10				0 0		
12	FL		Asphalt	100	1 1	
			Brown and gray, mottled, CLAY, trace gravel	0 0		
14	CL					
16			EOB @ 15' bg.			
18						



THE  
TRAVERSE  
GROUP

## LOG OF BORING GP-2

(Page 1 of 1)

Corktown Development-Area 4 1336 and 1342-1350 Bagley Street Detroit, Michigan			Date Drilled Driller Drilling Method Sampling Method TGI Representative	January 26, 2006 Terra Probe Environmental Geoprobe Macrocore DPietrzak	Logged By DPIetrzak	
Depth in Feet	USCS	GRAPHIC	DESCRIPTION	% Rec- covery	PID (ppmv)	REMARKS
0	SW		Brown, SAND, with gravel, trace clay, dry			
	CL	/	Dark brown to black, sandy CLAY, trace gravel, dry			
			Dark brown to black, SAND, with gravel, dry			
2	SW					
4	CL	/	Dark brown to black, CLAY, trace gravel, damp			
			Light brown, SAND, fine, moist to wet			
6	SP					
8	CP		Black, GRAVEL			
	CL	/	Brown and gray, mottled, CLAY, trace gravel, damp			
10			Gray, CLAY, stiff, damp			
12	CL					
14						
16			EOB @ 15' bg			
18						

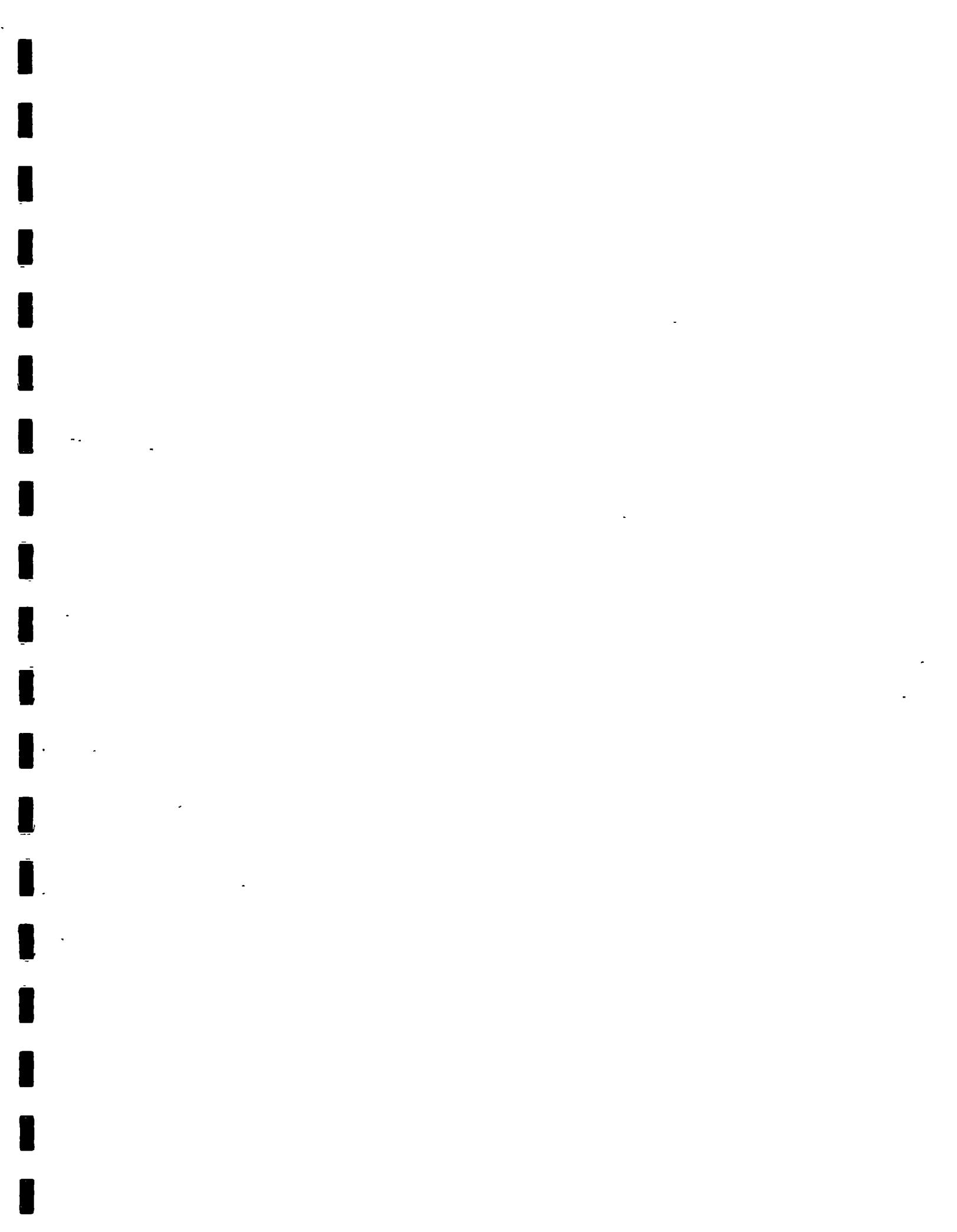


THE  
TRAVERSE  
GROUP

LOG OF BORING GP-3

(Page 1 of 1)

Corktown Development-Area 4 1336 and 1342-1350 Bagley Street Detroit, Michigan			Date Drilled Driller Drilling Method Sampling Method TGI Representative	January 26, 2006 Terra Probe Environmental Geoprobe Macrocore DPietrzak	Logged By DPietrzak	
Depth in Feet	USCS	GRAPHIC	DESCRIPTION	% Rec- overy	PID (ppmv)	REMARKS
0	FL		Asphalt			
			Dark brown to black, clayey SAND, with gravel, brick debris			
2	SW			50	0 0	Soil Samples
					0 0	Collected soil sample GP-3 from 4-6' bg and 8-10' bg
4			Light brown, SAND, fine, moist to wet	70	0 0	Boring abandoned with native soil to grade
6	SP				0 0	No groundwater encountered
8						
GW			Brown to black, GRAVEL, with brick			
			Brown to gray, mottled, CLAY, stiff, damp	100	0 0	
CL						
10			Gray, CLAY, stiff, damp		0 0	
12				100	0 0	
CL					0 0	
14						
			EOB @ 15' bg			
16						
18						





**APPENDIX B**

**LABORATORY ANALYTICAL REPORTS**



**RTI LABORATORIES, INC.**

31628 Glendale St  
Livonia, Michigan 48150  
TEL 734 422 8000  
FAX 734 422.5342  
Website [www.rtilab.com](http://www.rtilab.com)

February 15, 2006

Carolyn Paplin  
The Traverse Group  
7451 Third St.  
Detroit, MI 48202

TEL: (313) 871-5800  
FAX (313) 871-5802

RE: WCBRA/EPA Corktown Area 4 - RM0427

Order No.: 0601837

Dear Carolyn Paplin:

RTI Laboratories, Inc. received 8 sample(s) on 1/26/2006 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Quality control data was within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Charles O'Bryan".

Charles O'Bryan  
Director, Quality Management



**RTI LABORATORIES, INC.**

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## Case Narrative

WO#: 0601837  
Date: 2/15/2006

---

**CLIENT:** The Traverse Group  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

---

This report in its entirety consists of the documents listed below. All documents contain the RTI Work Order Number assigned to this report.

1. Paginated Report including: Case Narrative, Analytical Results and Applicable Quality Control Summary Reports.
2. A Cover Letter that immediately precedes the Paginated Report.
3. Paginated copies of the Chain of Custody Documents supplied with this sample set.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.



**RTI LABORATORIES, INC.**

31628 Glendale St.  
Livonia, Michigan 48150  
TEL 734 422 8000  
FAX 734 422 5342  
Website [www.rulab.com](http://www.rulab.com)

## Analytical Report

(consolidated)

WO#: 0601837

Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-001 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>POLYCHLORINATED BIPHENYLS</b>						
Aroclor 1016	ND	38		µg/Kg-dry	1	1/31/2006 2:35:15 AM
Aroclor 1221	ND	38		µg/Kg-dry	1	1/31/2006 2:35:15 AM
Aroclor 1232	ND	38		µg/Kg-dry	1	1/31/2006 2:35:15 AM
Aroclor 1242	ND	38		µg/Kg-dry	1	1/31/2006 2:35:15 AM
Aroclor 1248	ND	38		µg/Kg-dry	1	1/31/2006 2:35:15 AM
Aroclor 1254	ND	38		µg/Kg-dry	1	1/31/2006 2:35:15 AM
Aroclor 1260	ND	38		µg/Kg-dry	1	1/31/2006 2:35:15 AM
Sur. Decachlorobiphenyl	93.4	70-130		%REC	1	1/31/2006 2:35:15 AM
Surr. Tetrachloro-m-xylene	100	70-130		%REC	1	1/31/2006 2:35:15 AM
<b>LEAD, COARSE FRACTION</b>						
Lead	12000	1000		µg/Kg	10	1/30/2006 4:23:25 PM
<b>LEAD, FINE FRACTION</b>						
Lead	26000	1000		µg/Kg	10	1/31/2006 12:52:09 PM
<b>LEAD, TOTAL (CALCULATED)</b>						
Lead	13000	100		µg/Kg	1	2/3/2006
<b>METALS, ICP/MS</b>						
Arsenic	7300	120		µg/Kg-dry	10	1/30/2006 11:54:46 AM
Barium	68000	1200		µg/Kg-dry	10	1/30/2006 11:54:46 AM
Cadmium	680	230		µg/Kg-dry	10	1/30/2006 11:54:46 AM
Chromium	20000	2300		µg/Kg-dry	10	1/30/2006 11:54:46 AM
Copper	28000	1200		µg/Kg-dry	10	1/30/2006 11:54:46 AM
Selenium	ND	230		µg/Kg-dry	10	1/30/2006 11:54:46 AM
Silver	ND	120		µg/Kg-dry	10	1/30/2006 11:54:46 AM
Zinc	52000	1200		µg/Kg-dry	10	1/30/2006 11:54:46 AM
<b>MERCURY</b>						
Mercury	ND	23		µg/Kg-dry	1	1/30/2006
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
1,2,4-Trichlorobenzene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2,4,5-Trichlorophenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2,4,6-Trichlorophenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2,4-Dichlorophenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2,4-Dimethylphenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2,4-Dinitrophenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-001 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
2,4-Dinitrotoluene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2,6-Dichlorophenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2,6-Dinitrotoluene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2-Chloronaphthalene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2-Chlorophenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2-Methylnaphthalene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2-Methylphenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2-Nitroaniline	ND	970		µg/Kg-dry	1	2/6/2006 7:14:00 PM
2-Nitrophenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
3,3'-Dichlorobenzidine	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
3/4 Methylphenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
3-Nitroaniline	ND	970		µg/Kg-dry	1	2/6/2006 7:14:00 PM
4,6-Dinitro-2-methylphenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
4-Chloro-3-methylphenol	ND	330		µg/Kg-dry	1	2/6/2006 7:14:00 PM
4-Chloroaniline	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
4-Chlorophenyl phenyl ether	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
4-Nitroaniline	ND	970		µg/Kg-dry	1	2/6/2006 7:14:00 PM
4-Nitrophenol	ND	970		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Acenaphthene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Acenaphthylene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Aniline	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Anthracene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Benzidine	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Benzoic acid	ND	3800		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Benzyl alcohol	ND	3800		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Bis(2-chloroethoxy)methane	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Bis(2-chloroethyl) ether	ND	120		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Bis(2-chloroisopropyl) ether	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Bis(2-ethylhexyl) phthalate	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Butyl benzyl phthalate	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Carbazole	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO# 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-001 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1.020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Chrysene	ND	380		µg/Kg-dry	1	Analyst: JG3 2/6/2006 7.14:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	2/6/2006 7.14.00 PM
Dibenzofuran	ND	380		µg/Kg-dry	1	2/6/2006 7.14.00 PM
Diethyl phthalate	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Dimethyl phthalate	ND	380		µg/Kg-dry	1	2/6/2006 7.14:00 PM
Di-n-butyl phthalate	ND	380		µg/Kg-dry	1	2/6/2006 7.14:00 PM
Di-n-octyl phthalate	ND	380		µg/Kg-dry	1	2/6/2006 7.14:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	2/6/2006 7.14.00 PM
Fluorene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Hexachlorobenzene	ND	380		µg/Kg-dry	1	2/6/2006 7.14.00 PM
Hexachlorobutadiene	ND	58		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Hexachlorocyclopentadiene	ND	380		µg/Kg-dry	1	2/6/2006 7.14.00 PM
Hexachloroethane	ND	350		µg/Kg-dry	1	2/6/2006 7.14:00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Isophorone	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Naphthalene	ND	380		µg/Kg-dry	1	2/6/2006 7.14:00 PM
Nitrobenzene	ND	380		µg/Kg-dry	1	2/6/2006 7.14.00 PM
N-Nitrosodimethylamine	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
N-Nitrosodi-n-propylamine	ND	380		µg/Kg-dry	1	2/6/2006 7.14.00 PM
N-Nitrosodiphenylamine	ND	380		µg/Kg-dry	1	2/6/2006 7:14.00 PM
Pentachlorophenol	ND	380		µg/Kg-dry	1	2/6/2006 7:14.00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	2/6/2006 7:14:00 PM
Phenol	ND	380		µg/Kg-dry	1	2/6/2006 7.14.00 PM
Pyrene	ND	380		µg/Kg-dry	1	2/6/2006 7:14.00 PM
Pyridine	ND	380		µg/Kg-dry	1	2/6/2006 7:14.00 PM
Surr. 2,4,6-Tribromophenol	72.8	50-130		%REC	1	2/6/2006 7.14:00 PM
Surr. 2-Fluorobiphenyl	68.6	50-130		%REC	1	2/6/2006 7.14.00 PM
Surr. 2-Fluorophenol	79.6	50-130		%REC	1	2/6/2006 7:14.00 PM
Surr. Nitrobenzene-d5	78.4	50-130		%REC	1	2/6/2006 7:14.00 PM
Surr. Phenol-d5	83.4	50-130		%REC	1	2/6/2006 7:14.00 PM
Surr. Terphenyl-d14	73.8	50-130		%REC	1	2/6/2006 7:14.00 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND	58		µg/Kg-dry	50	Analyst: MT3 2/4/2006 12:22:00 AM
1,1,1-Trichloroethane	ND	58		µg/Kg-dry	50	2/4/2006 12.22.00 AM
1,1,2,2-Tetrachloroethane	ND	58		µg/Kg-dry	50	2/4/2006 12.22:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-001 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: MT3</b>
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,1,2-Trichloroethane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,1-Dichloroethane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,1-Dichloroethene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,1-Dichloropropene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2,3-Trichlorobenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2,3-Trichloropropane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2,3-Trimethylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2,4-Trichlorobenzene	ND	290		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2,4-Trimethylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2-Dibromo-3-chloropropane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2-Dichlorobenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2-Dichloroethane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,2-Dichloropropane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,3,5-Trimethylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,3-Dichlorobenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,3-Dichloropropane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
1,4-Dichlorobenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
2,2-Dichloropropane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
2-Chloroethyl vinyl ether	ND	580		µg/Kg-dry	50	2/4/2006 12:22:00 AM
2-Chlorotoluene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
2-Hexanone	ND	2900		µg/Kg-dry	50	2/4/2006 12:22:00 AM
2-Methylnaphthalene	ND	290		µg/Kg-dry	50	2/4/2006 12:22:00 AM
2-Nitropropane	ND	230		µg/Kg-dry	50	2/4/2006 12:22:00 AM
4-Chlorotoluene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Acetone	ND	2900		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Acrylonitrile	ND	290		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Benzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Bromobenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Bromochloromethane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Bromodichloromethane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Bromoform	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Bromomethane	ND	290		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Carbon disulfide	ND	290		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Carbon tetrachloride	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Chlorobenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

RL Reporting Detection Limit



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Website [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-001 **Matrix:** SOIL  
**Client Sample ID** RM042764.GP1:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
Chloroethane	ND	290		µg/Kg-dry	50	2/4/2006 12 22:00 AM
Chloroform	ND	58		µg/Kg-dry	50	2/4/2006 12 22 00 AM
Chloromethane	ND	58		µg/Kg-dry	50	2/4/2006 12 22 00 AM
cis-1,2-Dichloroethene	ND	58		µg/Kg-dry	50	2/4/2006 12:22.00 AM
cis-1,3-Dichloropropene	ND	58		µg/Kg-dry	50	2/4/2006 12 22:00 AM
Dibromochloromethane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Dibromomethane	ND	58		µg/Kg-dry	50	2/4/2006 12.22:00 AM
Dichlorodifluoromethane	ND	58		µg/Kg-dry	50	2/4/2006 12 22:00 AM
Dichloromethane	ND	290		µg/Kg-dry	50	2/4/2006 12:22 00 AM
Diethyl ether	ND	290		µg/Kg-dry	50	2/4/2006 12:22 00 AM
Ethyl methacrylate	ND	58		µg/Kg-dry	50	2/4/2006 12.22 00 AM
Ethylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12.22 00 AM
Ethylene dibromide	ND	58		µg/Kg-dry	50	2/4/2006 12.22:00 AM
Hexachlorobutadiene	ND	290		µg/Kg-dry	50	2/4/2006 12 22.00 AM
Hexachloroethane	ND	58		µg/Kg-dry	50	2/4/2006 12 22.00 AM
Isopropyl ether	ND	290		µg/Kg-dry	50	2/4/2006 12 22:00 AM
Isopropylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12.22 00 AM
m,p-Xylene	ND	120		µg/Kg-dry	50	2/4/2006 12.22.00 AM
Methyl ethyl ketone	ND	290		µg/Kg-dry	50	2/4/2006 12:22 00 AM
Methyl Iodide	ND	290		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Methyl isobutyl ketone	ND	580		µg/Kg-dry	50	2/4/2006 12:22'00 AM
Methyl tert-butyl ether	ND	290		µg/Kg-dry	50	2/4/2006 12.22:00 AM
Naphthalene	ND	290		µg/Kg-dry	50	2/4/2006 12.22 00 AM
n-Butylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12 22.00 AM
n-Propylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12:22.00 AM
o-Xylene	ND	58		µg/Kg-dry	50	2/4/2006 12:22 00 AM
p-Isopropyltoluene	ND	58		µg/Kg-dry	50	2/4/2006 12.22:00 AM
sec-Butylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12 22:00 AM
Styrene	ND	58		µg/Kg-dry	50	2/4/2006 12:22 00 AM
t-Butyl alcohol	ND	1500		µg/Kg-dry	50	2/4/2006 12:22 00 AM
tert-Amyl Methyl Ether	ND	230		µg/Kg-dry	50	2/4/2006 12.22:00 AM
tert-Butyl Ethyl Ether	ND	290		µg/Kg-dry	50	2/4/2006 12.22:00 AM
tert-Butylbenzene	ND	58		µg/Kg-dry	50	2/4/2006 12 22:00 AM
Tetrachloroethene	ND	58		µg/Kg-dry	50	2/4/2006 12 22 00 AM
Toluene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
trans-1,2-Dichloroethene	ND	58		µg/Kg-dry	50	2/4/2006 12:22'00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-001 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
trans-1,3-Dichloropropene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
trans-1,4-Dichloro-2-butene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Trichloroethene	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Trichlorofluoromethane	ND	58		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Vinyl chloride	ND	47		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Xylenes, Total	ND	170		µg/Kg-dry	50	2/4/2006 12:22:00 AM
Surr. 4-Bromofluorobenzene	109	70-130		%REC	50	2/4/2006 12:22:00 AM
Surr Dibromofluoromethane	107	70-130		%REC	50	2/4/2006 12:22:00 AM
Surr Toluene-d8	114	70-130		%REC	50	2/4/2006 12:22:00 AM
<b>PERCENT MOISTURE</b>						
Percent Moisture	14	1 0		wt%	1	Analyst: JW 2/2/2006

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-002 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:01200130:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>POLYCHLORINATED BIPHENYLS</b>			<b>SW8082</b>			<b>Analyst: MB</b>
Aroclor 1016	ND	39		µg/Kg-dry	1	1/31/2006 3 21:28 AM
Aroclor 1221	ND	39		µg/Kg-dry	1	1/31/2006 3 21:28 AM
Aroclor 1232	ND	39		µg/Kg-dry	1	1/31/2006 3:21:28 AM
Aroclor 1242	ND	39		µg/Kg-dry	1	1/31/2006 3:21:28 AM
Aroclor 1248	ND	39		µg/Kg-dry	1	1/31/2006 3.21.28 AM
Aroclor 1254	ND	39		µg/Kg-dry	1	1/31/2006 3:21.28 AM
Aroclor 1260	ND	39		µg/Kg-dry	1	1/31/2006 3.21.28 AM
Surr Decachlorobiphenyl	92.7	70-130	%REC		1	1/31/2006 3.21.28 AM
Surr. Tetrachloro-m-xylene	97.7	70-130	%REC		1	1/31/2006 3 21.28 AM
<b>LEAD, COARSE FRACTION</b>			<b>SW6020A</b>			<b>Analyst: AV</b>
Lead	210000	1000		µg/Kg	10	1/30/2006 4:25 04 PM
<b>LEAD, FINE FRACTION</b>			<b>SW6020A</b>			<b>Analyst: AV</b>
Lead	2700000	1000		µg/Kg	10	1/31/2006 12.53:49 PM
<b>LEAD, TOTAL (CALCULATED)</b>			<b>SW6020A</b>			<b>Analyst. RL2</b>
Lead	460000	100		µg/Kg	1	2/3/2006
<b>METALS, ICP/MS</b>			<b>SW6020A</b>			<b>Analyst. AB2</b>
Arsenic	8600	120		µg/Kg-dry	10	1/30/2006 11:57:22 AM
Barium	43000	1200		µg/Kg-dry	10	1/30/2006 11.57 22 AM
Cadmium	510	240		µg/Kg-dry	10	1/30/2006 11:57:22 AM
Chromium	16000	2400		µg/Kg-dry	10	1/30/2006 11:57:22 AM
Copper	26000	1200		µg/Kg-dry	10	1/30/2006 11:57:22 AM
Selenium	ND	240		µg/Kg-dry	10	1/30/2006 11:57 22 AM
Silver	ND	120		µg/Kg-dry	10	1/30/2006 11.57 22 AM
Zinc	53000	1200		µg/Kg-dry	10	1/30/2006 11:57 22 AM
<b>MERCURY</b>			<b>SW7470A</b>			<b>Analyst: AB2</b>
Mercury	ND	24		µg/Kg-dry	1	1/30/2006
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8270C</b>			<b>Analyst: JG3</b>
1,2,4-Trichlorobenzene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2,4,5-Trichlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 9.35.00 PM
2,4,6-Trichlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35 00 PM
2,4-Dichlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 9 35 00 PM
2,4-Dimethylphenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35'00 PM
2,4-Dinitrophenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35 00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
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J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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## Analytical Report

(consolidated)

WO#: 0601837

Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-002 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:01200130:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
2,4-Dinitrotoluene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2,6-Dichlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2,6-Dinitrotoluene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2-Chloronaphthalene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2-Chlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2-Methylnaphthalene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2-Methylphenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2-Nitroaniline	ND	990		µg/Kg-dry	1	2/4/2006 9:35:00 PM
2-Nitrophend	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
3,3'-Dichlorobenzidine	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
3/4 Methylphenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
3-Nitroaniline	ND	990		µg/Kg-dry	1	2/4/2006 9:35:00 PM
4,6-Dinitro-2-methylphenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
4-Chloro-3-methylphenol	ND	330		µg/Kg-dry	1	2/4/2006 9:35:00 PM
4-Chloroaniline	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
4-Chlorophenyl phenyl ether	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
4-Nitroaniline	ND	990		µg/Kg-dry	1	2/4/2006 9:35:00 PM
4-Nitrophend	ND	990		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Acenaphthene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Acenaphthylene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Aniline	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Anthracene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Benz(a)anthracene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Benzidine	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Benzo(a)pyrene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Benzo(b)fluoranthene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Benzo(g,h,i)perylene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Benzo(k)fluoranthene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Benzoic acid	ND	3900		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Benzyl alcohol	ND	3900		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Bis(2-chloroethoxy)methane	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Bis(2-chloroethyl) ether	ND	120		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Bis(2-chloroisopropyl) ether	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Bis(2-ethylhexyl) phthalate	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Butyl benzyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Carbazole	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

**B** Analyte detected in the associated Method Blank  
**H** Holding times for preparation or analysis exceeded  
**M** Manual Integration used to determine area-response  
**RL** Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-002 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:01200130:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Chrysene	ND	390		µg/Kg-dry	1	Analyst: JG3 2/4/2006 9:35:00 PM
Dibenz(a,h)anthracene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Dibenzofuran	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Diethyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Dimethyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Di-n-butyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Di-n-octyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Fluoranthene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Fluorene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Hexachlorobenzene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Hexachlorobutadiene	ND	60		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Hexachlorocyclopentadiene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Hexachloroethane	ND	360		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Indeno(1,2,3-cd)pyrene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Isophorone	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Naphthalene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Nitrobenzene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
N-Nitrosodimethylamine	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
N-Nitrosodi-n-propylamine	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
N-Nitrosodiphenylamine	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Pentachlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Phenanthrene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Phenol	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Pyrene	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Pyridine	ND	390		µg/Kg-dry	1	2/4/2006 9:35:00 PM
Surr. 2,4,6-Tribromophenol	59.1	50-130		%REC	1	2/4/2006 9:35:00 PM
Surr. 2-Fluorobiphenyl	55.5	50-130		%REC	1	2/4/2006 9:35:00 PM
Surr 2-Fluorophenol	70.0	50-130		%REC	1	2/4/2006 9:35:00 PM
Surr Nitrobenzene-d5	68.1	50-130		%REC	1	2/4/2006 9:35:00 PM
Surr Phenol-d5	76.0	50-130		%REC	1	2/4/2006 9:35:00 PM
Surr Terphenyl-d14	55.2	50-130		%REC	1	2/4/2006 9:35:00 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND	60		µg/Kg-dry	50	Analyst: MT3 2/4/2006 12:56:00 AM
1,1,1-Trichloroethane	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
1,1,2,2-Tetrachloroethane	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
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## Analytical Report

(consolidated)

WO#: 0601837

Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-002 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:01200130:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	Analyst. MT3
1,1,2-Trichloroethane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,1-Dichloroethane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,1-Dichloroethene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,1-Dichloropropene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2,3-Trichlorobenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2,3-Trichloropropane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2,3-Trimethylbenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2,4-Trichlorobenzene	ND	300	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2,4-Trimethylbenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2-Dibromo-3-chloropropane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2-Dichlorobenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2-Dichloroethane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,2-Dichloropropane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,3,5-Trimethylbenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,3-Dichlorobenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,3-Dichloropropane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
1,4-Dichlorobenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
2,2-Dichloropropane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
2-Chloroethyl vinyl ether	ND	600	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
2-Chlorotoluene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
2-Hexanone	ND	3000	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
2-Methylnaphthalene	ND	300	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
2-Nitropropane	ND	240	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
4-Chlorotoluene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Acetone	ND	3000	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Acrylonitrile	ND	300	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Benzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Bromobenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Bromochloromethane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Bromodichloromethane	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Bromoform	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Bromomethane	ND	300	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Carbon disulfide	ND	300	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Carbon tetrachloride	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	
Chlorobenzene	ND	60	µg/Kg-dry	50	2/4/2006 12:56:00 AM	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

**B** Analyte detected in the associated Method Blank  
**H** Holding times for preparation or analysis exceeded  
**M** Manual Integration used to determine area response  
**RL** Reporting Detection Limit



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Website [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-002 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:01200130:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>			<b>Analyst: MT3</b>
Chloroethane	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Chloroform	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Chloromethane	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
cis-1,2-Dichloroethene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
cis-1,3-Dichloropropene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Dibromochloromethane	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Dibromomethane	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Dichlorodifluoromethane	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Dichloromethane	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Diethyl ether	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Ethyl methacrylate	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Ethylbenzene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Ethylene dibromide	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Hexachlorobutadiene	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Hexachloroethane	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Isopropyl ether	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Isopropylbenzene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
m,p-Xylene	ND	120		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Methyl ethyl ketone	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Methyl iodide	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Methyl isobutyl ketone	ND	600		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Methyl tert-butyl ether	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Naphthalene	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
n-Butylbenzene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
n-Propylbenzene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
o-Xylene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
p-Isopropyltoluene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
sec-Butylbenzene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Styrene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
t-Butyl alcohol	ND	1500		µg/Kg-dry	50	2/4/2006 12:56:00 AM
tert-Amyl-Methyl Ether	ND	240		µg/Kg-dry	50	2/4/2006 12:56:00 AM
tert-Butyl Ethyl Ether	ND	300		µg/Kg-dry	50	2/4/2006 12:56:00 AM
tert-Butylbenzene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Tetrachloroethene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Toluene	140	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
trans-1,2-Dichloroethene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-002 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP1:01200130:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: MT3</b>
trans-1,3-Dichloropropene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
trans-1,4-Dichloro-2-butene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Trichloroethene	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Trichlorofluoromethane	ND	60		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Vinyl chloride	ND	48		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Xylenes, Total	ND	180		µg/Kg-dry	50	2/4/2006 12:56:00 AM
Surr 4-Bromofluorobenzene	113	70-130		%REC	50	2/4/2006 12:56:00 AM
Surr Dibromofluoromethane	108	70-130		%REC	50	2/4/2006 12:56:00 AM
Surr Toluene-d8	115	70-130		%REC	50	2/4/2006 12:56:00 AM
<b>PERCENT MOISTURE</b>				<b>D2216</b>		<b>Analyst: JW</b>
Percent Moisture	16		1.0	wt%	1	2/2/2006

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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:30:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-003 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>LEAD, COARSE FRACTION</b>				<b>SW6020A</b>		<b>Analyst. AV</b>
Lead	140000	1000		µg/Kg	10	1/30/2006 4:26.43 PM
<b>LEAD, FINE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	380000	1000		µg/Kg	10	1/31/2006 12:55.28 PM
<b>LEAD, TOTAL (CALCULATED)</b>				<b>SW6020A</b>		<b>Analyst. RL2</b>
Lead	210000	100		µg/Kg	1	2/3/2006
<b>METALS, ICP/MS</b>				<b>SW6020A</b>		<b>Analyst: AB2</b>
Arsenic	1500	110		µg/Kg-dry	10	1/30/2006 11:59.59 AM
Banum	25000	1100		µg/Kg-dry	10	1/30/2006 11:59:59 AM
Cadmium	ND	230		µg/Kg-dry	10	1/30/2006 11:59:59 AM
Chromium	6000	2300		µg/Kg-dry	10	1/30/2006 11:59.59 AM
Copper	11000	1100		µg/Kg-dry	10	1/30/2006 11:59:59 AM
Selenium	ND	230		µg/Kg-dry	10	1/30/2006 11:59:59 AM
Silver	ND	110		µg/Kg-dry	10	1/30/2006 11:59:59 AM
Zinc	30000	1100		µg/Kg-dry	10	1/30/2006 11:59:59 AM
<b>MERCURY</b>				<b>SW7470A</b>		<b>Analyst: AB2</b>
Mercury	41	20		µg/Kg-dry	1	1/30/2006
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8270C</b>		<b>Analyst: JG3</b>
1,2,4-Trichlorobenzene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2,4,5-Trichlorophenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2,4,6-Trichlorophenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2,4-Dichlorophenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2,4-Dimethylphenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2,4-Dinitrophenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2,4-Dinitrotoluene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2,6-Dichlorophenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2,6-Dinitrotoluene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2-Chloronaphthalene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2-Chlorophenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2-Methylnaphthalene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2-Methylphenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2-Nitroaniline	ND	940		µg/Kg-dry	1	2/4/2006 10:11:00 PM
2-Nitrophenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
3,3'-Dichlorobenzidine	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:30:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-003 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8270C</b>		<b>Analyst: JG3</b>
3/4 Methylphenol	ND	370		µg/Kg-dry	1	2/4/2006 10 11:00 PM
3-Nitroaniline	ND	940		µg/Kg-dry	1	2/4/2006 10:11:00 PM
4,6-Dinitro-2-methylphenol	ND	370		µg/Kg-dry	1	2/4/2006 10.11 00 PM
4-Chloro-3-methylphenol	ND	320		µg/Kg-dry	1	2/4/2006 10.11 00 PM
4-Chloroaniline	ND	370		µg/Kg-dry	1	2/4/2006 10 11 00 PM
4-Chlorophenyl phenyl ether	ND	370		µg/Kg-dry	1	2/4/2006 10 11'00 PM
4-Nitroaniline	ND	940		µg/Kg-dry	1	2/4/2006 10.11.00 PM
4-Nitrophenol	ND	940		µg/Kg-dry	1	2/4/2006 10.11 00 PM
Acenaphthene	ND	370		µg/Kg-dry	1	2/4/2006 10.11 00'PM
Acenaphthylene	ND	370		µg/Kg-dry	1	2/4/2006 10 11.00 PM
Aniline	ND	370		µg/Kg-dry	1	2/4/2006 10.11:00 PM
Anthracene	ND	370		µg/Kg-dry	1	2/4/2006 10.11.00 PM
Benz(a)anthracene	ND	370		µg/Kg-dry	1	2/4/2006 10 11:00 PM
Benzidine	ND	370		µg/Kg-dry	1	2/4/2006 10:11.00 PM
Benzo(a)pyrene	ND	370		µg/Kg-dry	1	2/4/2006 10·11.00 PM
Benzo(b)fluoranthene	ND	370		µg/Kg-dry	1	2/4/2006 10 11'00 PM
Benzo(g,h,i)perylene	ND	370		µg/Kg-dry	1	2/4/2006 10 11'00 PM
Benzo(k)fluoranthene	ND	370		µg/Kg-dry	1	2/4/2006 10 11.00 PM
Benzoic acid	ND	3700		µg/Kg-dry	1	2/4/2006 10·11 00 PM
Benzyl alcohol	ND	3700		µg/Kg-dry	1	2/4/2006 10:11'00 PM
Bis(2-chloroethoxy)methane	ND	370		µg/Kg-dry	1	2/4/2006 10.11:00 PM
Bis(2-chloroethyl) ether	ND	110		µg/Kg-dry	1	2/4/2006 10 11.00 PM
Bis(2-chloroisopropyl) ether	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
Bis(2-ethylhexyl) phthalate	ND	370		µg/Kg-dry	1	2/4/2006 10:11'00 PM
Butyl benzyl phthalate	ND	370		µg/Kg-dry	1	2/4/2006 10.11.00 PM
Carbazole	ND	370		µg/Kg-dry	1	2/4/2006 10·11.00 PM
Chrysene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
Dibenz(a,h)anthracene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
Dibenzofuran	ND	370		µg/Kg-dry	1	2/4/2006 10.11 00 PM
Diethyl phthalate	ND	370		µg/Kg-dry	1	2/4/2006 10.11.00'PM
Dimethyl phthalate	ND	370		µg/Kg-dry	1	2/4/2006 10.11:00 PM
Di-n-butyl phthalate	ND	370		µg/Kg-dry	1	2/4/2006 10.11:00 PM
Di-n-octyl phthalate	ND	370		µg/Kg-dry	1	2/4/2006 10 11 00 PM
Fluoranthene	ND	370		µg/Kg-dry	1	2/4/2006 10 11 00 PM
Fluorene	ND	370		µg/Kg-dry	1	2/4/2006 10:11'00 PM
Hexachlorobenzene	ND	370		µg/Kg-dry	1	2/4/2006 10.11.00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:30:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-003 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8270C</b>			<b>Analyst. JG3</b>
Hexachlorobutadiene	ND	57		µg/Kg-dry	1	2/4/2006 10 11 00 PM
Hexachlorocyclopentadiene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
Hexachloroethane	ND	340		µg/Kg-dry	1	2/4/2006 10:11:00 PM
Indeno(1,2,3-cd)pyrene	ND	370		µg/Kg-dry	1	2/4/2006 10.11 00 PM
Isophorone	ND	370		µg/Kg-dry	1	2/4/2006 10 11 00 PM
Naphthalene	ND	370		µg/Kg-dry	1	2/4/2006 10 11:00 PM
Nitrobenzene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
N-Nitrosodimethylamine	ND	370		µg/Kg-dry	1	2/4/2006 10.11:00 PM
N-Nitrosodi-n-propylamine	ND	370		µg/Kg-dry	1	2/4/2006 10 11 00 PM
N-Nitrosodiphenylamine	ND	370		µg/Kg-dry	1	2/4/2006 10.11 00 PM
Pentachlorophenol	ND	370		µg/Kg-dry	1	2/4/2006 10 11:00 PM
Phenanthrene	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
Phenol	ND	370		µg/Kg-dry	1	2/4/2006 10:11:00 PM
Pyrene	ND	370		µg/Kg-dry	1	2/4/2006 10.11:00 PM
Pyndine	ND	370		µg/Kg-dry	1	2/4/2006 10.11:00 PM
Surr. 2,4,6-Tribromophenol	68.8	50-130		%REC	1	2/4/2006 10 11:00 PM
Surr 2-Fluorobiphenyl	70.6	50-130		%REC	1	2/4/2006 10:11:00 PM
Surr 2-Fluorophenol	78.7	50-130		%REC	1	2/4/2006 10.11:00 PM
Surr. Nitrobenzene-d5	77.2	50-130		%REC	1	2/4/2006 10:11:00 PM
Surr Phenol-d5	80.6	50-130		%REC	1	2/4/2006 10 11:00 PM
Surr Terphenyl-d14	72.4	50-130		%REC	1	2/4/2006 10 11:00 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>			<b>Analyst. MT3</b>
1,1,1,2-Tetrachloroethane	ND	57		µg/Kg-dry	50	2/4/2006 1:30:00 AM
1,1,1-Trichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 1:30:00 AM
1,1,2,2-Tetrachloroethane	ND	57		µg/Kg-dry	50	2/4/2006 1.30:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	57		µg/Kg-dry	50	2/4/2006 1:30:00 AM
1,1,2-Trichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 1 30 00 AM
1,1-Dichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 1 30:00 AM
1,1-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 1.30.00 AM
1,1-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 1.30 00 AM
1,2,3-Trichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 1:30 00 AM
1,2,3-Trichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 1.30.00 AM
1,2,3-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1.30.00 AM
1,2,4-Trichlorobenzene	ND	280		µg/Kg-dry	50	2/4/2006 1:30.00 AM
1,2,4-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1:30 00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method/Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:30:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-003 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst. MT3</b>
1,2-Dibromo-3-chloropropane	ND	57		µg/Kg-dry	50	2/4/2006 1 30 00 AM
1,2-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 1 30 00 AM
1,2-Dichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 1 30 00 AM
1,2-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 1.30.00 AM
1,3,5-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1 30.00 AM
1,3-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 1 30 00 AM
1,3-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 1·30.00 AM
1,4-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 1 30.00 AM
2,2-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 1:30 00 AM
2-Chloroethyl vinyl ether	ND	570		µg/Kg-dry	50	2/4/2006 1·30.00 AM
2-Chlorotoluene	ND	57		µg/Kg-dry	50	2/4/2006 1 30.00 AM
2-Hexanone	ND	2800		µg/Kg-dry	50	2/4/2006 1.30 00 AM
2-Methylnaphthalene	ND	280		µg/Kg-dry	50	2/4/2006 1.30 00 AM
2-Nitropropane	ND	230		µg/Kg-dry	50	2/4/2006 1 30·00 AM
4-Chlorotoluene	ND	57		µg/Kg-dry	50	2/4/2006 1.30.00 AM
Acetone	ND	2800		µg/Kg-dry	50	2/4/2006 1:30 00 AM
Acrylonitrile	ND	280		µg/Kg-dry	50	2/4/2006 1 30.00 AM
Benzene	ND	57		µg/Kg-dry	50	2/4/2006 1.30:00 AM
Bromobenzene	ND	57		µg/Kg-dry	50	2/4/2006 1:30.00 AM
Bromochloromethane	ND	57		µg/Kg-dry	50	2/4/2006 1.30·00 AM
Bromodichloromethane	ND	57		µg/Kg-dry	50	2/4/2006 1·30.00 AM
Bromoform	ND	57		µg/Kg-dry	50	2/4/2006 1.30 00 AM
Bromomethane	ND	280		µg/Kg-dry	50	2/4/2006 1:30·00 AM
Carbon disulfide	ND	280		µg/Kg-dry	50	2/4/2006 1·30 00 AM
Carbon tetrachloride	ND	57		µg/Kg-dry	50	2/4/2006 1:30.00 AM
Chlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 1 30·00 AM
Chloroethane	ND	280		µg/Kg-dry	50	2/4/2006 1.30·00 AM
Chloroform	ND	57		µg/Kg-dry	50	2/4/2006 1·30:00 AM
Chloromethane	ND	57		µg/Kg-dry	50	2/4/2006 1·30.00 AM
cis-1,2-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 1 30 00 AM
cis-1,3-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 1·30:00 AM
Dibromochloromethane	ND	57		µg/Kg-dry	50	2/4/2006 1 30 00 AM
Dibromomethane	ND	57		µg/Kg-dry	50	2/4/2006 1·30.00 AM
Dichlorodifluoromethane	ND	57		µg/Kg-dry	50	2/4/2006 1.30 00 AM
Dichloromethane	ND	280		µg/Kg-dry	50	2/4/2006 1·30:00 AM
Diethyl ether	ND	280		µg/Kg-dry	50	2/4/2006 1.30.00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



**RTI LABORATORIES, INC.**

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Website [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:30:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-003 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:020040·320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: MT3</b>
Ethyl methacrylate	ND	57		µg/Kg-dry	50	2/4/2006 1:30 00 AM
Ethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1:30 00 AM
Ethylene dibromide	ND	57		µg/Kg-dry	50	2/4/2006 1:30.00 AM
Hexachlorobutadiene	ND	280		µg/Kg-dry	50	2/4/2006 1 30 00 AM
Hexachloroethane	ND	57		µg/Kg-dry	50	2/4/2006 1 30.00 AM
Isopropyl ether	ND	280		µg/Kg-dry	50	2/4/2006 1:30 00 AM
Isopropylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1:30:00 AM
m,p-Xylene	ND	110		µg/Kg-dry	50	2/4/2006 1:30:00 AM
Methyl ethyl ketone	ND	280		µg/Kg-dry	50	2/4/2006 1 30.00 AM
Methyl Iodide	ND	280		µg/Kg-dry	50	2/4/2006 1 30.00 AM
Methyl isobutyl ketone	ND	570		µg/Kg-dry	50	2/4/2006 1 30 00 AM
Methyl tert-butyl ether	ND	280		µg/Kg-dry	50	2/4/2006 1 30 00 AM
Naphthalene	ND	280		µg/Kg-dry	50	2/4/2006 1:30 00 AM
n-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1 30:00 AM
n-Propylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1.30:00 AM
o-Xylene	57	57		µg/Kg-dry	50	2/4/2006 1.30 00 AM
p-Isopropyltoluene	ND	57		µg/Kg-dry	50	2/4/2006 1.30:00 AM
sec-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1 30:00 AM
Styrene	ND	57		µg/Kg-dry	50	2/4/2006 1:30 00 AM
t-Butyl alcohol	ND	1400		µg/Kg-dry	50	2/4/2006 1:30:00 AM
tert-Amyl Methyl Ether	ND	230		µg/Kg-dry	50	2/4/2006 1.30 00 AM
tert-Butyl Ethyl Ether	ND	280		µg/Kg-dry	50	2/4/2006 1:30:00 AM
tert-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 1:30:00 AM
Tetrachloroethene	ND	57		µg/Kg-dry	50	2/4/2006 1:30:00 AM
Toluene	64	57		µg/Kg-dry	50	2/4/2006 1:30:00 AM
trans-1,2-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 1.30:00 AM
trans-1,3-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 1:30 00 AM
trans-1,4-Dichloro-2-butene	ND	57		µg/Kg-dry	50	2/4/2006 1.30:00 AM
Trichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 1:30:00 AM
Trichlorofluoromethane	ND	57		µg/Kg-dry	50	2/4/2006 1.30:00 AM
Vinyl chloride	ND	45		µg/Kg-dry	50	2/4/2006 1:30 00 AM
Xylenes, Total	ND	170		µg/Kg-dry	50	2/4/2006 1:30 00 AM
Surr 4-Bromofluorobenzene	111	70-130		%REC	50	2/4/2006 1:30 00 AM
Surr Dibromofluoromethane	108	70-130		%REC	50	2/4/2006 1:30 00 AM
Surr Toluene-d8	114	70-130		%REC	50	2/4/2006 1 30:00 AM

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S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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(consolidated)  
WO#: 0601837  
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**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:30:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-003 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2.020040:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PERCENT MOISTURE</b> Percent Moisture	12	D2216	1.0	wt%	1	Analyst. JW 2/2/2006

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**Analytical Report**  
(consolidated)  
WO# 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:45:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-004 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>LEAD, COARSE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	8900	1000		µg/Kg	10	1/30/2006 4 28 22 PM
<b>LEAD, FINE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	14000	1000		µg/Kg	10	1/31/2006 1 00 23 PM
<b>LEAD, TOTAL (CALCULATED)</b>				<b>SW6020A</b>		<b>Analyst: RL2</b>
Lead	9500	100		µg/Kg	1	2/3/2006
<b>METALS, ICP/MS</b>				<b>SW6020A</b>		<b>Analyst: AB2</b>
Arsenic	3200	120		µg/Kg-dry	10	1/30/2006 12 02:36 PM
Barium	24000	1200		µg/Kg-dry	10	1/30/2006 12:02:36 PM
Cadmium	360	240		µg/Kg-dry	10	1/30/2006 12.02:36 PM
Chromium	14000	2400		µg/Kg-dry	10	1/30/2006 12.02 36 PM
Copper	22000	1200		µg/Kg-dry	10	1/30/2006 12 02.36 PM
Selenium	980	240		µg/Kg-dry	10	1/30/2006 12:02:36 PM
Silver	ND	120		µg/Kg-dry	10	1/30/2006 12:02 36 PM
Zinc	38000	1200		µg/Kg-dry	10	1/30/2006 12 02:36 PM
<b>MERCURY</b>				<b>SW7470A</b>		<b>Analyst: AB2</b>
Mercury	26	17	S	µg/Kg-dry	1	1/30/2006
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8270C</b>		<b>Analyst: JG3</b>
1,2,4-Trichlorobenzene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
2,4,5-Trichlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
2,4,6-Trichlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 10.48 00 PM
2,4-Dichlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48 00 PM
2,4-Dimethylphenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
2,4-Dinitrophenol	ND	390		µg/Kg-dry	1	2/4/2006 10.48:00 PM
2,4-Dinitrotoluene	ND	390		µg/Kg-dry	1	2/4/2006 10.48 00 PM
2,6-Dichlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48.00 PM
2,6-Dinitrotoluene	ND	390		µg/Kg-dry	1	2/4/2006 10:48 00 PM
2-Chloronaphthalene	ND	390		µg/Kg-dry	1	2/4/2006 10 48'00 PM
2-Chlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
2-Methylnaphthalene	ND	390		µg/Kg-dry	1	2/4/2006 10.48.00 PM
2-Methylphenol	ND	390		µg/Kg-dry	1	2/4/2006 10.48.00 PM
2-Nitroaniline	ND	980		µg/Kg-dry	1	2/4/2006 10.48.00 PM
2-Nitrophenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48'00 PM
3,3'-Dichlorobenzidine	ND	390		µg/Kg-dry	1	2/4/2006 10:48 00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
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 S Spike Recovery outside accepted recovery limits

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**Analytical Report**  
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WO#: 0601837  
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**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:45:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-004 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
3/4 Methylphenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
3-Nitroaniline	ND	980		µg/Kg-dry	1	2/4/2006 10:48:00 PM
4,6-Dinitro-2-methylphenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
4-Chloro-3-methylphenol	ND	330		µg/Kg-dry	1	2/4/2006 10:48:00 PM
4-Chloroaniline	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
4-Chlorophenyl phenyl ether	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
4-Nitroaniline	ND	980		µg/Kg-dry	1	2/4/2006 10:48:00 PM
4-Nitrophenol	ND	980		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Acenaphthene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Acenaphthylene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Aniline	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Anthracene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Benz(a)anthracene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Benzidine	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Benzo(a)pyrene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Benzo(b)fluoranthene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Benzo(g,h,i)perylene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Benzo(k)fluoranthene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Benzoic acid	ND	3900		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Benzyl alcohol	ND	3900		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Bis(2-chloroethoxy)methane	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Bis(2-chloroethyl) ether	ND	120		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Bis(2-chloroisopropyl) ether	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Bis(2-ethylhexyl) phthalate	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Butyl benzyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Carbazole	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Chrysene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Dibenz(a,h)anthracene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Dibenzofuran	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Diethyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Dimethyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Di-n-butyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Di-n-octyl phthalate	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Fluoranthene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Fluorene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Hexachlorobenzene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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WO#. 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:45:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-004 **Matrix:** SOIL  
**Client Sample ID** RM042764.GP2:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8270C</b>		<b>Analyst: JG3</b>
Hexachlorobutadiene	ND	59		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Hexachlorocyclopentadiene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Hexachloroethane	ND	350		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Indeno[1,2,3-cd]pyrene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Isophorone	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Naphthalene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Nitrobenzene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
N-Nitrosodimethylamine	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
N-Nitrosodi-n-propylamine	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
N-Nitrosodiphenylamine	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Pentachlorophenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Phenanthrene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Phenol	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Pyrene	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Pyridine	ND	390		µg/Kg-dry	1	2/4/2006 10:48:00 PM
Surr 2,4,6-Tribromophenol	52.0	50-130		%REC	1	2/4/2006 10:48:00 PM
Surr. 2-Fluorobiphenyl	55.3	50-130		%REC	1	2/4/2006 10:48:00 PM
Surr 2-Fluorophenol	65.1	50-130		%REC	1	2/4/2006 10:48:00 PM
Surr Nitrobenzene-d5	63.0	50-130		%REC	1	2/4/2006 10:48:00 PM
Surr Phenol-d5	67.5	50-130		%REC	1	2/4/2006 10:48:00 PM
Surr. Terphenyl-d14	59.2	50-130		%REC	1	2/4/2006 10:48:00 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: MT3</b>
1,1,1,2-Tetrachloroethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,1,1-Trichloroethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,1,2,2-Tetrachloroethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,1,2-Trichloroethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,1-Dichloroethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,1-Dichloroethene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,1-Dichloropropene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,2,3-Trichlorobenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,2,3-Trichloropropane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,2,3-Trimethylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,2,4-Trichlorobenzene	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,2,4-Trimethylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



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Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:45:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-004 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,2-Dibromo-3-chloropropane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,2-Dichlorobenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,2-Dichloroethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,2-Dichloropropane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,3,5-Trimethylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,3-Dichlorobenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,3-Dichloropropane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
1,4-Dichlorobenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
2,2-Dichloropropane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
2-Chloroethyl vinyl ether	ND	590		µg/Kg-dry	50	2/4/2006 2:03:00 AM
2-Chlorotoluene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
2-Hexanone	ND	2900		µg/Kg-dry	50	2/4/2006 2:03:00 AM
2-Methylnaphthalene	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM
2-Nitropropane	ND	240		µg/Kg-dry	50	2/4/2006 2:03:00 AM
4-Chlorotoluene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Acetone	ND	2900		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Acrylonitrile	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Benzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Bromobenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Bromochloromethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Bromodichloromethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Bromoform	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Bromomethane	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Carbon disulfide	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Carbon tetrachloride	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Chlorobenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Chloroethane	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Chloroform	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Chloromethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
cis-1,2-Dichloroethene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
cis-1,3-Dichloropropene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Dibromochloromethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Dibromomethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Dichlorodifluoromethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Dichloromethane	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Diethyl ether	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10.45:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-004 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2:0800100.320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>			<b>Analyst. MT3</b>
Ethyl methacrylate	ND	59		µg/Kg-dry	50	2/4/2006 2 03 00 AM
Ethylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03.00 AM
Ethylene dibromide	ND	59		µg/Kg-dry	50	2/4/2006 2.03.00 AM
Hexachlorobutadiene	ND	290		µg/Kg-dry	50	2/4/2006 2:03.00 AM
Hexachloroethane	ND	59		µg/Kg-dry	50	2/4/2006 2:03 00 AM
Isopropyl ether	ND	290		µg/Kg-dry	50	2/4/2006 2:03.00 AM
Isopropylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2.03.00 AM
m,p-Xylene	ND	120		µg/Kg-dry	50	2/4/2006 2:03.00 AM
Methyl ethyl ketone	ND	290		µg/Kg-dry	50	2/4/2006 2:03 00 AM
Methyl Iodide	ND	290		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Methyl isobutyl ketone	ND	590		µg/Kg-dry	50	2/4/2006 2 03 00 AM
Methyl tert-butyl ether	ND	290		µg/Kg-dry	50	2/4/2006 2 03 00 AM
Naphthalene	ND	290		µg/Kg-dry	50	2/4/2006 2 03:00 AM
n-Butylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2.03:00 AM
n-Propylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2 03 00 AM
o-Xylene	ND	59		µg/Kg-dry	50	2/4/2006 2 03:00 AM
p-Isopropyltoluene	ND	59		µg/Kg-dry	50	2/4/2006 2:03.00 AM
sec-Butylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2 03:00 AM
Styrene	ND	59		µg/Kg-dry	50	2/4/2006 2 03:00 AM
t-Butyl alcohol	ND	1500		µg/Kg-dry	50	2/4/2006 2:03:00 AM
tert-Amyl Methyl Ether	ND	240		µg/Kg-dry	50	2/4/2006 2:03 00 AM
tert-Butyl Ethyl Ether	ND	290		µg/Kg-dry	50	2/4/2006 2.03:00 AM
tert-Butylbenzene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Tetrachloroethene	ND	59		µg/Kg-dry	50	2/4/2006 2 03 00 AM
Toluene	ND	59		µg/Kg-dry	50	2/4/2006 2:03 00 AM
trans-1,2-Dichloroethene	ND	59		µg/Kg-dry	50	2/4/2006 2.03:00 AM
trans-1,3-Dichloropropene	ND	59		µg/Kg-dry	50	2/4/2006 2:03:00 AM
trans-1,4-Dichloro-2-butene	ND	59		µg/Kg-dry	50	2/4/2006 2 03:00 AM
Trichloroethene	ND	59		µg/Kg-dry	50	2/4/2006 2:03 00 AM
Trichlorofluoromethane	ND	59		µg/Kg-dry	50	2/4/2006 2 03:00 AM
Vinyl chloride	ND	47		µg/Kg-dry	50	2/4/2006 2:03 00 AM
Xylenes, Total	ND	180		µg/Kg-dry	50	2/4/2006 2:03:00 AM
Surr. 4-Bromofluorobenzene	110	70-130		%REC	50	2/4/2006 2 03:00 AM
Surr. Dibromofluoromethane	109	70-130		%REC	50	2/4/2006 2.03:00 AM
Surr. Toluene-d8	113	70-130		%REC	50	2/4/2006 2.03:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 10:45:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-004 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP2.0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PERCENT MOISTURE</b> Percent Moisture	15	D2216	1.0	wt%	1	Analyst: JW 2/2/2006

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-005 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>LEAD, COARSE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	9900	1000		µg/Kg	10	1/30/2006 4:30 02 PM
<b>LEAD, FINE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	23000	1000		µg/Kg	10	1/31/2006 1:02 02 PM
<b>LEAD, TOTAL (CALCULATED)</b>				<b>SW6020A</b>		<b>Analyst: RL2</b>
Lead	12000	100		µg/Kg	1	2/3/2006
<b>METALS, ICP/MS</b>				<b>SW6020A</b>		<b>Analyst: AB2</b>
Arsenic	5500	110		µg/Kg-dry	10	1/30/2006 12:15:55 PM
Barium	40000	1100		µg/Kg-dry	10	1/30/2006 12:15:55 PM
Cadmium	500	230		µg/Kg-dry	10	1/30/2006 12:15:55 PM
Chromium	18000	2300		µg/Kg-dry	10	1/30/2006 12:15:55 PM
Copper	25000	1100		µg/Kg-dry	10	1/30/2006 12:15:55 PM
Selenium	ND	230		µg/Kg-dry	10	1/30/2006 12:15:55 PM
Silver	160	110		µg/Kg-dry	10	1/30/2006 12:15:55 PM
Zinc	53000	1100		µg/Kg-dry	10	1/30/2006 12:15:55 PM
<b>MERCURY</b>				<b>SW7470A</b>		<b>Analyst: AB2</b>
Mercury	ND	22		µg/Kg-dry	1	1/30/2006
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8270C</b>		<b>Analyst: JG3</b>
1,2,4-Trichlorobenzene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2,4,5-Trichlorophenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2,4,6-Trichlorophenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2,4-Dichlorophenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2,4-Dimethylphenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2,4-Dinitrophenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2,4-Dinitrotoluene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2,6-Dichlorophenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2,6-Dinitrotoluene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2-Chloronaphthalene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2-Chlorophenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2-Methylnaphthalene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2-Methylphenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2-Nitroaniline	ND	950		µg/Kg-dry	1	2/4/2006 11:24:00 PM
2-Nitrophenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
3,3'-Dichlorobenzidine	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 B Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
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 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-005 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
3/4 Methylphenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
3-Nitroaniline	ND	950		µg/Kg-dry	1	2/4/2006 11:24:00 PM
4,6-Dinitro-2-methylphenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
4-Chloro-3-methylphenol	ND	320		µg/Kg-dry	1	2/4/2006 11:24:00 PM
4-Chloroaniline	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
4-Chlorophenyl phenyl ether	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
4-Nitroaniline	ND	950		µg/Kg-dry	1	2/4/2006 11:24:00 PM
4-Nitrophenol	ND	950		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Acenaphthene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Acenaphthylene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Aniline	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Anthracene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Benzidine	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Benzolic acid	ND	3800		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Benzyl alcohol	ND	3800		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Bis(2-chloroethoxy)methane	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Bis(2-chloroethyl) ether	ND	110		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Bis(2-chloroisopropyl) ether	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Bis(2-ethylhexyl) phthalate	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Butyl benzyl phthalate	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Carbazole	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Chrysene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Dibenzofuran	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Diethyl phthalate	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Dimethyl phthalate	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Di-n-butylphthalate	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Di-n-octyl phthalate	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Fluorene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM
Hexachlorobenzene	ND	380		µg/Kg-dry	1	2/4/2006 11:24:00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analytic detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-005 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Hexachlorobutadiene	ND	57		µg/Kg-dry	1	Analyst: JG3 2/4/2006 11:24:00 PM
Hexachlorocyclopentadiene	ND	380		µg/Kg-dry	1	2/4/2006 11.24.00 PM
Hexachloroethane	ND	340		µg/Kg-dry	1	2/4/2006 11.24.00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	2/4/2006 11.24.00 PM
Isophorone	ND	380		µg/Kg-dry	1	2/4/2006 11.24:00 PM
Naphthalene	ND	380		µg/Kg-dry	1	2/4/2006 11.24:00 PM
Nitrobenzene	ND	380		µg/Kg-dry	1	2/4/2006 11.24.00 PM
N-Nitrosodimethylamine	ND	380		µg/Kg-dry	1	2/4/2006 11.24:00 PM
N-Nitrosodi-n-propylamine	ND	380		µg/Kg-dry	1	2/4/2006 11.24.00 PM
N-Nitrosodiphenylamine	ND	380		µg/Kg-dry	1	2/4/2006 11.24.00 PM
Pentachlorophenol	ND	380		µg/Kg-dry	1	2/4/2006 11:24.00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	2/4/2006 11.24.00 PM
Phenol	ND	380		µg/Kg-dry	1	2/4/2006 11.24.00 PM
Pyrene	ND	380		µg/Kg-dry	1	2/4/2006 11:24.00 PM
Pyndine	ND	380		µg/Kg-dry	1	2/4/2006 11:24.00 PM
Surr 2,4,6-Tribromophenol	43.8	50-130	S	%REC	1	2/4/2006 11:24.00 PM
Surr: 2-Fluorobiphenyl	38.9	50-130	S	%REC	1	2/4/2006 11.24.00 PM
Surr 2-Fluorophenol	54.7	50-130		%REC	1	2/4/2006 11.24:00 PM
Surr Nitrobenzene-d5	51.5	50-130		%REC	1	2/4/2006 11:24.00 PM
Surr. Phenol-d5	59.1	50-130		%REC	1	2/4/2006 11.24.00 PM
Surr Terphenyl-d14	38.6	50-130	S	%REC	1	2/4/2006 11:24.00 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND	57		µg/Kg-dry	50	Analyst: MT3 2/4/2006 2.37.00 AM
1,1,1-Trichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,1,2,2-Tetrachloroethane	ND	57		µg/Kg-dry	50	2/4/2006 2.37:00 AM
1,1,2-Trichloro-1,2,2-Influoroethane	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,1,2-Trichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,1-Dichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,1-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,1-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,2,3-Trichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,2,3-Trichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,2,3-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,2,4-Trichlorobenzene	ND	290		µg/Kg-dry	50	2/4/2006 2.37.00 AM
1,2,4-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2.37.00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-005 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>			<b>Analyst: MT3</b>
1,2-Dibromo-3-chloropropane	ND	57		µg/Kg-dry	-	2/4/2006 2:37:00 AM
1,2-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
1,2-Dichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
1,2-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
1,3,5-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
1,3-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
1,3-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
1,4-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
2,2-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
2-Chloroethyl vinyl ether	ND	570		µg/Kg-dry	50	2/4/2006 2:37:00 AM
2-Chlorotoluene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
2-Hexanone	ND	2900		µg/Kg-dry	50	2/4/2006 2:37:00 AM
2-Methylnaphthalene	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
2-Nitropropane	ND	230		µg/Kg-dry	50	2/4/2006 2:37:00 AM
4-Chlorotoluene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Acetone	ND	2900		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Acrylonitrile	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Benzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Bromobenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Bromochloromethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Bromodichloromethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Bromoform	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Bromomethane	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Carbon disulfide	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Carbon tetrachloride	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Chlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Chloroethane	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Chloroform	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Chloromethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
cis-1,2-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
cis-1,3-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Dibromochloromethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Dibromomethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Dichlorodifluoromethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Dichloromethane	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Diethyl ether	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



**RTI LABORATORIES, INC.**

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Website [www.rtlab.com](http://www.rtlab.com)

**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-005 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
Ethyl methacrylate	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Ethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Ethylene dibromide	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Hexachlorobutadiene	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Hexachloroethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Isopropyl ether	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Isopropylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
m,p-Xylene	ND	110		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Methyl ethyl ketone	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Methyl Iodide	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Methyl isobutyl ketone	ND	570		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Methyl tert-butyl ether	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Naphthalene	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
n-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
n-Propylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
o-Xylene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
p-Isopropyltoluene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
sec-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Styrene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
t-Butyl alcohol	ND	1400		µg/Kg-dry	50	2/4/2006 2:37:00 AM
tert-Amyl Methyl Ether	ND	230		µg/Kg-dry	50	2/4/2006 2:37:00 AM
tert-Butyl Ethyl Ether	ND	290		µg/Kg-dry	50	2/4/2006 2:37:00 AM
tert-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Tetrachloroethene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Toluene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
trans-1,2-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
trans-1,3-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
trans-1,4-Dichloro-2-butene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Trichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Trichlorofluoromethane	ND	57		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Vinyl chloride	ND	46		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Xylenes, Total	ND	170		µg/Kg-dry	50	2/4/2006 2:37:00 AM
Surr 4-Bromofluorobenzene	110	70-130		%REC	50	2/4/2006 2:37:00 AM
Surr Dibromofluoromethane	107	70-130		%REC	50	2/4/2006 2:37:00 AM
Surr: Toluene-d8	102	70-130		%REC	50	2/4/2006 2:37:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
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 J Analyte detected below quantitation limits  
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 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



**RTI LABORATORIES, INC.**

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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:15:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-005 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:0800100:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PERCENT MOISTURE</b> Percent Moisture	13	-	1.0	wt%	1	Analyst: JW 2/2/2006

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-006 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:040060:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>LEAD, COARSE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	6400	1000		µg/Kg	10	1/30/2006 4.31 43 PM
<b>LEAD, FINE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	23000	1000		µg/Kg	10	1/31/2006 1:21:14 PM
<b>LEAD, TOTAL (CALCULATED)</b>				<b>SW6020A</b>		<b>Analyst: RL2</b>
Lead	9600	100		µg/Kg	1	2/3/2006
<b>METALS, ICP/MS</b>				<b>SW6020A</b>		<b>Analyst: AB2</b>
Arsenic	250	110		µg/Kg-dry	10	1/30/2006 12 18 33 PM
Barium	18000	1100		µg/Kg-dry	10	1/30/2006 12.18.33 PM
Cadmium	ND	220		µg/Kg-dry	10	1/30/2006 12.18.33 PM
Chromium	8700	2200		µg/Kg-dry	10	1/30/2006 12 18.33 PM
Copper	9800	1100		µg/Kg-dry	10	1/30/2006 12 18 33 PM
Selenium	ND	220		µg/Kg-dry	10	1/30/2006 12:18:33 PM
Silver	ND	110		µg/Kg-dry	10	1/30/2006 12 18 33 PM
Zinc	20000	1100		µg/Kg-dry	10	1/30/2006 12 18 33 PM
<b>MERCURY</b>				<b>SW7470A</b>		<b>Analyst: AB2</b>
Mercury	ND	16		µg/Kg-dry	1	1/30/2006
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8270C</b>		<b>Analyst: JG3</b>
1,2,4-Trichlorobenzene	ND	370		µg/Kg-dry	1	2/5/2006 12 01.00 AM
2,4,5-Trichlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12 01 00 AM
2,4,6-Trichlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12.01 00 AM
2,4-Dichlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
2,4-Dimethylphenol	ND	370		µg/Kg-dry	1	2/5/2006 12.01.00 AM
2,4-Dinitrophenol	ND	370		µg/Kg-dry	1	2/5/2006 12.01.00 AM
2,4-Dinitrotoluene	ND	370		µg/Kg-dry	1	2/5/2006 12-01.00 AM
2,6-Dichlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
2,6-Dinitrotoluene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
2-Chloronaphthalene	ND	370		µg/Kg-dry	1	2/5/2006 12.01 00 AM
2-Chlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
2-Methylnaphthalene	ND	370		µg/Kg-dry	1	2/5/2006 12.01.00 AM
2-Methylphenol	ND	370		µg/Kg-dry	1	2/5/2006 12 01:00 AM
2-Nitroaniline	ND	930		µg/Kg-dry	1	2/5/2006 12-01 00 AM
2-Nitrophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:01 00 AM
3,3'-Dichlorobenzidine	ND	370		µg/Kg-dry	1	2/5/2006 12.01 00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
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 S Spike Recovery outside accepted recovery limits

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**Analytical Report**  
(consolidated)  
WO# 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-006 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:040060:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8270C</b>			<b>Analyst: JG3</b>
3/4 Methylphenol	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
3-Nitroaniline	ND	930		µg/Kg-dry	1	2/5/2006 12:01:00 AM
4,6-Dinitro-2-methylphenol	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
4-Chloro-3-methylphenol	ND	310		µg/Kg-dry	1	2/5/2006 12:01:00 AM
4-Chloroaniline	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
4-Chlorophenyl phenyl ether	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
4-Nitroaniline	ND	930		µg/Kg-dry	1	2/5/2006 12:01:00 AM
4-Nitrophenol	ND	930		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Acenaphthene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Acenaphthylene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Aniline	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Anthracene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Benz(a)anthracene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Benzidine	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Benzo(a)pyrene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Benzo(b)fluoranthene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Benzo(g,h,i)perylene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Benzo(k)fluoranthene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Benzoic acid	ND	3700		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Benzyl alcohol	ND	3700		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Bis(2-chloroethoxy)methane	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Bis(2-chloroethyl) ether	ND	110		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Bis(2-chloroisopropyl) ether	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Bis(2-ethylhexyl) phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Butyl benzyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Carbazole	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Chrysene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Dibenz(a,h)anthracene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Dibenzofuran	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Diethyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Dimethyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Di-n-butyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Di-n-octyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Fluoranthene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Fluorene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Hexachlorobenzene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 B Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-006 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:040060:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Hexachlorobutadiene	ND	56		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Hexachlorocyclopentadiene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Hexachloroethane	ND	340		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Indeno[1,2,3-cd]pyrene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Isophorone	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Naphthalene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Nitrobenzene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
N-Nitrosodimethylamine	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
N-Nitrosodi-n-propylamine	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
N-Nitrosodiphenylamine	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Pentachlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Phenanthrene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Phenol	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Pyrene	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Pyridine	ND	370		µg/Kg-dry	1	2/5/2006 12:01:00 AM
Surr. 2,4,6-Tribromophenol	63.8	50-130		%REC	1	2/5/2006 12:01:00 AM
Surr. 2-Fluorobiphenyl	71.3	50-130		%REC	1	2/5/2006 12:01:00 AM
Surr. 2-Fluorophenol	81.6	50-130		%REC	1	2/5/2006 12:01:00 AM
Surr. Nitrobenzene-d5	78.8	50-130		%REC	1	2/5/2006 12:01:00 AM
Surr. Phenol-d5	83.8	50-130		%REC	1	2/5/2006 12:01:00 AM
Surr. Terphenyl-d14	76.1	50-130		%REC	1	2/5/2006 12:01:00 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,1,1-Trichloroethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,1,2,2-Tetrachloroethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,1,2-Trichloroethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,1-Dichloroethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,1-Dichloroethene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,1-Dichloropropene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,2,3-Trichlorobenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,2,3-Trichloropropane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,2,3-Trimethylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,2,4-Trichlorobenzene	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,2,4-Trimethylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-006 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:040060:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>			<b>Analyst. MT3</b>
1,2-Dibromo-3-chloropropane	ND	56		µg/Kg-dry	50	2/4/2006 3 11:00 AM
1,2-Dichlorobenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,2-Dichloroethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,2-Dichloropropane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,3,5-Trimethylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3 11 00 AM
1,3-Dichlorobenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11 00 AM
1,3-Dichloropropane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
1,4-Dichlorobenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
2,2-Dichloropropane	ND	56		µg/Kg-dry	50	2/4/2006 3 11:00 AM
2-Chloroethyl vinyl ether	ND	560		µg/Kg-dry	50	2/4/2006 3:11 00 AM
2-Chlorotoluene	ND	56		µg/Kg-dry	50	2/4/2006 3 11:00 AM
2-Hexanone	ND	2800		µg/Kg-dry	50	2/4/2006 3:11 00 AM
2-Methylnaphthalene	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
2-Nitropropane	ND	220		µg/Kg-dry	50	2/4/2006 3:11 00 AM
4-Chlorotoluene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Acetone	ND	2800		µg/Kg-dry	50	2/4/2006 3 11:00 AM
Acrylonitrile	ND	280		µg/Kg-dry	50	2/4/2006 3 11 00 AM
Benzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Bromobenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Bromochloromethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Bromodichloromethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Bromoform	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Bromomethane	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Carbon disulfide	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Carbon tetrachloride	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Chlorobenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Chloroethane	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Chloroform	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Chloromethane	ND	56		µg/Kg-dry	50	2/4/2006 3 11:00 AM
cis-1,2-Dichloroethene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
cis-1,3-Dichloropropene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Dibromochloromethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Dibromomethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Dichlorodifluoromethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Dichloromethane	ND	280		µg/Kg-dry	50	2/4/2006 3 11:00 AM
Diethyl ether	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method:Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO# 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-006 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:040060.320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>			<b>Analyst: MT3</b>
Ethyl methacrylate	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Ethylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Ethylene dibromide	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Hexachlorobutadiene	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Hexachloroethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Isopropyl ether	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Isopropylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
m,p-Xylene	ND	110		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Methyl ethyl ketone	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Methyl Iodide	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Methyl isobutyl ketone	ND	560		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Methyl tert-butyl ether	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Naphthalene	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
n-Butylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
n-Propylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
o-Xylene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
p-Isopropyltoluene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
sec-Butylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Styrene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
t-Butyl alcohol	ND	1400		µg/Kg-dry	50	2/4/2006 3:11:00 AM
tert-Amyl Methyl Ether	ND	220		µg/Kg-dry	50	2/4/2006 3:11:00 AM
tert-Butyl Ethyl Ether	ND	280		µg/Kg-dry	50	2/4/2006 3:11:00 AM
tert-Butylbenzene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Tetrachloroethene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Toluene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
trans-1,2-Dichloroethene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
trans-1,3-Dichloropropene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
trans-1,4-Dichloro-2-butene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Trichloroethene	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Trichlorofluoromethane	ND	56		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Vinyl chloride	ND	45		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Xylenes, Total	ND	170		µg/Kg-dry	50	2/4/2006 3:11:00 AM
Surr 4-Bromofluorobenzene	113	70-130		%REC	50	2/4/2006 3:11:00 AM
Surr Dibromofluoromethane	108	70-130		%REC	50	2/4/2006 3:11:00 AM
Surr Toluene-d8	117	70-130		%REC	50	2/4/2006 3:11:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006 11:00:00 AM  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-006 **Matrix:** SOIL  
**Client Sample ID** RM042764:GP3:040060:320

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>PERCENT MOISTURE</b>						
Percent Moisture	11		1.0	wt%	1	Analyst: JW 2/2/2006

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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-007 **Matrix:** SOIL  
**Client Sample ID** RM042764:Dup:Dup.320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>LEAD, COARSE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	660	100		µg/Kg	1	1/30/2006 4.45:50 PM
<b>LEAD, FINE FRACTION</b>				<b>SW6020A</b>		<b>Analyst: AV</b>
Lead	11000	1000		µg/Kg	10	1/31/2006 1.22:54 PM
<b>LEAD, TOTAL (CALCULATED)</b>				<b>SW6020A</b>		<b>Analyst: RL2</b>
Lead	3400	100		µg/Kg	1	2/3/2006
<b>METALS, ICP/MS</b>				<b>SW6020A</b>		<b>Analyst: AB2</b>
Arsenic	1600	110		µg/Kg-dry	10	1/30/2006 12 21:11 PM
Barium	35000	1100		µg/Kg-dry	10	1/30/2008 12 21:11 PM
Cadmium	ND	230		µg/Kg-dry	10	1/30/2006 12 21:11 PM
Chromium	10000	2300		µg/Kg-dry	10	1/30/2006 12 21:11 PM
Copper	11000	1100		µg/Kg-dry	10	1/30/2006 12:21 11 PM
Selenium	ND	230		µg/Kg-dry	10	1/30/2006 12:21:11 PM
Silver	ND	110		µg/Kg-dry	10	1/30/2006 12.21.11 PM
Zinc	25000	1100		µg/Kg-dry	10	1/30/2006 12.21:11 PM
<b>MERCURY</b>				<b>SW7470A</b>		<b>Analyst: AB2</b>
Mercury	43	19		µg/Kg-dry	1	1/30/2006
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8270C</b>		<b>Analyst: JG3</b>
1,2,4-Trichlorobenzene	ND	370		µg/Kg-dry	1	2/5/2006 12.37:00 AM
2,4,5-Trichlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12.37:00 AM
2,4,6-Trichlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12.37:00 AM
2,4-Dichlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
2,4-Dimethylphenol	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
2,4-Dinitrophenol	ND	370		µg/Kg-dry	1	2/5/2006 12.37.00 AM
2,4-Dinitrotoluene	ND	370		µg/Kg-dry	1	2/5/2006 12.37.00 AM
2,6-Dichlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:37 00 AM
2,6-Dinitrotoluene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
2-Chloronaphthalene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
2-Chlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
2-Methylnaphthalene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
2-Methylphenol	ND	370		µg/Kg-dry	1	2/5/2006 12:37 00 AM
2-Nitroaniline	ND	940		µg/Kg-dry	1	2/5/2006 12:37:00 AM
2-Nitrophenol	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
3,3'-Dichlorobenzidine	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
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 RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-007 **Matrix:** SOIL  
**Client Sample ID** RM042764:Dup:Dup:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8270C</b>			<b>Analyst: JG3</b>
3/4 Methylphenol	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
3-Nitroaniline	ND	940		µg/Kg-dry	1	2/5/2006 12:37:00 AM
4,6-Dinitro-2-methylphenol	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
4-Chloro-3-methylphenol	ND	320		µg/Kg-dry	1	2/5/2006 12:37:00 AM
4-Chloroaniline	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
4-Chlorophenyl phenyl ether	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
4-Nitroaniline	ND	940		µg/Kg-dry	1	2/5/2006 12:37:00 AM
4-Nitrophenol	ND	940		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Acenaphthene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Acenaphthylene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Aniline	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Anthracene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Benz(a)anthracene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Benzidine	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Benzo(a)pyrene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Benzo(b)fluoranthene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Benzo(g,h,i)perylene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Benzo(k)fluoranthene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Benzoic acid	ND	3700		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Benzyl alcohol	ND	3700		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Bis(2-chloroethoxy)methane	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Bis(2-chloroethyl) ether	ND	110		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Bis(2-chloroisopropyl) ether	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Bis(2-ethylhexyl) phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Butyl benzyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Carbazole	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Chrysene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Dibenz(a,h)anthracene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Dibenzofuran	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Diethyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Dimethyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Di-n-butyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Di-n-octyl phthalate	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Fluoranthene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Fluorene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM
Hexachlorobenzene	ND	370		µg/Kg-dry	1	2/5/2006 12:37:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding-times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO# 0601837  
Date Reported 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-007 **Matrix:** SOIL  
**Client Sample ID** RM042764:Dup.Dup:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						<b>Analyst: JG3</b>
Hexachlorobutadiene	ND	57		µg/Kg-dry	1	2/5/2006 12 37.00 AM
Hexachlorocyclopentadiene	ND	370		µg/Kg-dry	1	2/5/2006 12.37 00 AM
Hexachloroethane	ND	340		µg/Kg-dry	1	2/5/2006 12.37.00 AM
Indeno[1,2,3-cd]pyrene	ND	370		µg/Kg-dry	1	2/5/2006 12 37:00 AM
Isophorone	ND	370		µg/Kg-dry	1	2/5/2006 12 37 00 AM
Naphthalene	ND	370		µg/Kg-dry	1	2/5/2006 12.37 00 AM
Nitrobenzene	ND	370		µg/Kg-dry	1	2/5/2006 12.37.00 AM
N-Nitrosodimethylamine	ND	370		µg/Kg-dry	1	2/5/2006 12 37.00 AM
N-Nitrosodi-n-propylamine	ND	370		µg/Kg-dry	1	2/5/2006 12 37'00 AM
N-Nitrosodiphenylamine	ND	370		µg/Kg-dry	1	2/5/2006 12 37'00 AM
Pentachlorophenol	ND	370		µg/Kg-dry	1	2/5/2006 12 37 00 AM
Phenanthrene	ND	370		µg/Kg-dry	1	2/5/2006 12 37'00 AM
Phenol	ND	370		µg/Kg-dry	1	2/5/2006 12 37 00 AM
Pyrene	ND	370		µg/Kg-dry	1	2/5/2006 12 37 00 AM
Pyndine	ND	370		µg/Kg-dry	1	2/5/2006 12.37.00 AM
Surr. 2,4,6-Tribromophenol	64.5	50-130		%REC	1	2/5/2006 12.37'00 AM
Surr. 2-Fluorobiphenyl	66.6	50-130		%REC	1	2/5/2006 12 37'00 AM
Surr. 2-Fluorophenol	78.1	50-130		%REC	1	2/5/2006 12 37.00 AM
Surr. Nitrobenzene-d5	76.7	50-130		%REC	1	2/5/2006 12·37'00 AM
Surr. Phenol-d5	80.6	50-130		%REC	1	2/5/2006 12.37.00 AM
Surr Terphenyl-d14	75.8	50-130		%REC	1	2/5/2006 12.37.00 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>						<b>Analyst: MT3</b>
1,1,1,2-Tetrachloroethane	ND	57		µg/Kg-dry	50	2/4/2006 3 44 00 AM
1,1,1-Trichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 3.44·00 AM
1,1,2,2-Tetrachloroethane	ND	57		µg/Kg-dry	50	2/4/2006 3.44·00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	57		µg/Kg-dry	50	2/4/2006 3 44:00 AM
1,1,2-Trichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 3·44.00 AM
1,1-Dichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
1,1-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 3.44·00 AM
1,1-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 3 44 00 AM
1,2,3-Trichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 3·44.00 AM
1,2,3-Trichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 3.44:00 AM
1,2,3-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3 44.00 AM
1,2,4-Trichlorobenzene	ND	280		µg/Kg-dry	50	2/4/2006 3·44:00 AM
1,2,4-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3.44.00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-007 **Matrix:** SOIL  
**Client Sample ID** RM042764:Dup:Dup:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: MT3</b>
1,2-Dibromo-3-chloropropane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
1,2-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
1,2-Dichloroethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
1,2-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
1,3,5-Trimethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
1,3-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
1,3-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
1,4-Dichlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
2,2-Dichloropropane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
2-Chloroethyl vinyl ether	ND	570		µg/Kg-dry	50	2/4/2006 3:44:00 AM
2-Chlorotoluene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
2-Hexanone	ND	2800		µg/Kg-dry	50	2/4/2006 3:44:00 AM
2-Methylnaphthalene	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
2-Nitropropane	ND	230		µg/Kg-dry	50	2/4/2006 3:44:00 AM
4-Chlorotoluene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Acetone	ND	2800		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Acrylonitrile	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Benzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Bromobenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Bromochloromethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Bromodichloromethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Bromoform	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Bromomethane	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Carbon disulfide	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Carbon tetrachloride	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Chlorobenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Chloroethane	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Chloroform	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Chloromethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
cis-1,2-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
cis-1,3-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Dibromochloromethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Dibromomethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Dichlorodifluoromethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Dichloromethane	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Diethyl ether	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method:Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



**RTI LABORATORIES, INC.**

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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-007 **Matrix:** SOIL  
**Client Sample ID** RM042764:Dup:Dup:320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>			<b>Analyst: MT3</b>
Ethyl methacrylate	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Ethylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Ethylene dibromide	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Hexachlorobutadiene	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Hexachloroethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Isopropyl ether	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Isopropylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
m,p-Xylene	ND	110		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Methyl ethyl ketone	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Methyl iodide	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Methyl isobutyl ketone	ND	570		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Methyl tert-butyl ether	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Naphthalene	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
n-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
n-Propylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
o-Xylene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
p-Isopropyltoluene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
sec-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Styrene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
t-Butyl alcohol	ND	1400		µg/Kg-dry	50	2/4/2006 3:44:00 AM
tert-Amyl Methyl Ether	ND	230		µg/Kg-dry	50	2/4/2006 3:44:00 AM
tert-Butyl Ethyl Ether	ND	280		µg/Kg-dry	50	2/4/2006 3:44:00 AM
tert-Butylbenzene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Tetrachloroethene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Toluene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
trans-1,2-Dichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
trans-1,3-Dichloropropene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
trans-1,4-Dichloro-2-butene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Trichloroethene	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Trichlorofluoromethane	ND	57		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Vinyl chloride	ND	45		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Xylenes, Total	ND	170		µg/Kg-dry	50	2/4/2006 3:44:00 AM
Surr. 4-Bromofluorobenzene	112	70-130		%REC	50	2/4/2006 3:44:00 AM
Surr Dibromofluoromethane	109	70-130		%REC	50	2/4/2006 3:44:00 AM
Surr: Toluene-d8	114	70-130		%REC	50	2/4/2006 3:44:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method:Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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## Analytical Report

(consolidated)

WO# **0601837**  
Date Reported. **2/15/2006**

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008  
**Lab ID:** 0601837-007 **Matrix:** SOIL  
**Client Sample ID** RM042764:Dup:Dup:320

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	
<b>PERCENT MOISTURE</b> Percent Moisture	12		D2216	1.0	wt%	1	Analyst. JW 2/2/2006

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006

**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008

**Lab ID:** 0601837-008

**Matrix:** METHANOL

**Client Sample ID** Equipment Blank

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: MT3</b>
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg	50	2/3/2006 10.07 00 PM
1,1,1-Trichloroethane	ND	50		µg/Kg	50	2/3/2006 10.07 00 PM
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg	50	2/3/2006 10 07:00 PM
1,1,2-Trichloro-1,2,2-trfluoroethane	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
1,1,2-Trichloroethane	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
1,1-Dichloroethane	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
1,1-Dichloroethene	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
1,1-Dichloropropene	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
1,2,3-Trichlorobenzene	ND	50		µg/Kg	50	2/3/2006 10.07.00 PM
1,2,3-Trichloropropane	ND	50		µg/Kg	50	2/3/2006 10.07.00 PM
1,2,3-Trimethylbenzene	ND	50		µg/Kg	50	2/3/2006 10:07'00 PM
1,2,4-Trichlorobenzene	ND	250		µg/Kg	50	2/3/2006 10.07:00 PM
1,2,4-Trimethylbenzene	ND	50		µg/Kg	50	2/3/2006 10.07.00 PM
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg	50	2/3/2006 10.07.00 PM
1,2-Dichlorobenzene	ND	50		µg/Kg	50	2/3/2006 10.07 00 PM
1,2-Dichloroethane	ND	50		µg/Kg	50	2/3/2006 10.07.00 PM
1,2-Dichloropropane	ND	50		µg/Kg	50	2/3/2006 10 07 00 PM
1,3,5-Trimethylbenzene	ND	50		µg/Kg	50	2/3/2006 10-07 00 PM
1,3-Dichlorobenzene	ND	50		µg/Kg	50	2/3/2006 10'07 00 PM
1,3-Dichloropropane	ND	50,		µg/Kg	50	2/3/2006 10.07:00 PM
1,4-Dichlorobenzene	ND	50		µg/Kg	50	2/3/2006 10.07.00 PM
2,2-Dichloropropane	ND	50		µg/Kg	50	2/3/2006 10'07'00 PM
2-Chloroethyl vinyl ether	ND	500		µg/Kg	50	2/3/2006 10:07:00 PM
2-Chlorotoluene	ND	50		µg/Kg	50	2/3/2006 10 07:00 PM
2-Hexanone	ND	2500		µg/Kg	50	2/3/2006 10-07 00 PM
2-Methylnaphthalene	ND	250		µg/Kg	50	2/3/2006 10:07'00 PM
2-Nitropropane	ND	200		µg/Kg	50	2/3/2006 10:07'00 PM
4-Chlorotoluene	ND	50		µg/Kg	50	2/3/2006 10.07 00 PM
Acetone	ND	2500		µg/Kg	50	2/3/2006 10.07.00 PM
Acrylonitrile	ND	250		µg/Kg	50	2/3/2006 10.07 00 PM
Benzene	ND	50		µg/Kg	50	2/3/2006 10-07'00 PM
Bromobenzene	ND	50		µg/Kg	50	2/3/2006 10 07:00 PM
Bromochloromethane	ND	50		µg/Kg	50	2/3/2006 10 07'00 PM
Bromodichloromethane	ND	50		µg/Kg	50	2/3/2006 10.07 00 PM
Bromoform	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
Bromomethane	ND	250		µg/Kg	50	2/3/2006 10.07.00 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

**B** Analytic detected in the associated Method Blank  
**H** Holding times for preparation or analysis exceeded  
**M** Manual Integration used to determine area response  
**RL** Reporting Detection Limit



**RTI LABORATORIES, INC.**

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**Analytical Report**  
(consolidated)  
WO#: 0601837  
Date Reported: 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006

**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008

**Lab ID:** 0601837-008

**Matrix:** METHANOL

**Client Sample ID** Equipment Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
Carbon disulfide	ND	250		µg/Kg	50	2/3/2006 10 07 00 PM
Carbon tetrachloride	ND	50		µg/Kg	50	2/3/2006 10 07.00 PM
Chlorobenzene	ND	50		µg/Kg	50	2/3/2006 10 07.00 PM
Chloroethane	ND	250		µg/Kg	50	2/3/2006 10 07.00 PM
Chloroform	ND	50		µg/Kg	50	2/3/2006 10 07.00 PM
Chloromethane	ND	50		µg/Kg	50	2/3/2006 10 07.00 PM
cis-1,2-Dichloroethene	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
cis-1,3-Dichloropropene	ND	50		µg/Kg	50	2/3/2006 10.07.00 PM
Dibromochloromethane	ND	50		µg/Kg	50	2/3/2006 10.07 00 PM
Dibromomethane	ND	50		µg/Kg	50	2/3/2006 10 07.00 PM
Dichlorodifluoromethane	ND	50		µg/Kg	50	2/3/2006 10 07 00 PM
Dichloromethane	ND	250		µg/Kg	50	2/3/2006 10 07 00 PM
Diethyl ether	ND	250		µg/Kg	50	2/3/2006 10 07:00 PM
Ethyl methacrylate	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
Ethylbenzene	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
Ethylene dibromide	ND	50		µg/Kg	50	2/3/2006 10:07.00 PM
Hexachlorobutadiene	ND	250		µg/Kg	50	2/3/2006 10:07:00 PM
Hexachloroethane	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
Isopropyl ether	ND	250		µg/Kg	50	2/3/2006 10.07.00 PM
Isopropylbenzene	ND	50		µg/Kg	50	2/3/2006 10 07.00 PM
m,p-Xylene	ND	100		µg/Kg	50	2/3/2006 10:07:00 PM
Methyl ethyl ketone	ND	250		µg/Kg	50	2/3/2006 10:07:00 PM
Methyl Iodide	ND	250		µg/Kg	50	2/3/2006 10 07:00 PM
Methyl isobutyl ketone	ND	500		µg/Kg	50	2/3/2006 10:07:00 PM
Methyl tert-butyl ether	ND	250		µg/Kg	50	2/3/2006 10 07:00 PM
Naphthalene	ND	250		µg/Kg	50	2/3/2006 10 07:00 PM
n-Butylbenzene	ND	50		µg/Kg	50	2/3/2006 10 07:00 PM
n-Propylbenzene	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
o-Xylene	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM
p-Isopropyltoluene	ND	50		µg/Kg	50	2/3/2006 10 07 00 PM
sec-Butylbenzene	ND	50		µg/Kg	50	2/3/2006 10 07:00 PM
Styrene	ND	50		µg/Kg	50	2/3/2006 10 07:00 PM
t-Butyl alcohol	ND	1200		µg/Kg	50	2/3/2006 10:07:00 PM
tert-Amyl Methyl Ether	ND	200		µg/Kg	50	2/3/2006 10 07:00 PM
tert-Butyl Ethyl Ether	ND	250		µg/Kg	50	2/3/2006 10.07:00 PM
tert-Butylbenzene	ND	50		µg/Kg	50	2/3/2006 10.07:00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method/Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit



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**Analytical Report**  
(consolidated)  
WO#. 0601837  
Date Reported. 2/15/2006

**CLIENT:** The Traverse Group **Collection Date:** 1/26/2006

**Project:** WCBRA/EPA Corktown Area 4 - RM042764-008

**Lab ID:** 0601837-008

**Matrix:** METHANOL

**Client Sample ID** Equipment Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
Tetrachloroethene	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
Toluene	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
trans-1,2-Dichloroethene	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
trans-1,3-Dichloropropene	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
trans-1,4-Dichloro-2-butene	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
Trichloroethene	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
Trichlorofluoromethane	ND	50		µg/Kg	50	2/3/2006 10:07:00 PM
Vinyl chloride	ND	40		µg/Kg	50	2/3/2006 10:07:00 PM
Xylenes, Total	ND	150		µg/Kg	50	2/3/2006 10:07:00 PM
Surr 4-Bromofluorobenzene	111	70-130		%REC	50	2/3/2006 10:07:00 PM
Surr Dibromofluoromethane	109	70-130		%REC	50	2/3/2006 10:07:00 PM
Surr Toluene-d8	115	70-130		%REC	50	2/3/2006 10:07:00 PM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

CLIENT: The Traverse Group

Work Order: 0601837

Project: WCBRA/EPA Corktown Area 4 - RM042764-0

**QC SUMMARY REPORT**

TestCode: SW\_6020\_PBCF

Sample ID	LCS-1635	SampType	LCS	TestCode	SW_6020_PB	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3794
Client ID	LCSS	Batch ID	1635	TestNo	SW6020A			Analysis Date	1/30/2006	SeqNo	55076
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Lead		1200	20	1000	0	116	85	115			S
Sample ID	MB-1635	SampType	MBLK	TestCode	SW_6020_PB	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3794
Client ID	PBS	Batch ID	1635	TestNo	SW6020A			Analysis Date	1/30/2006	SeqNo	55077
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Lead		ND	20								
Sample ID	0601735-001C-MS	SampType	MS	TestCode	SW_6020_PB	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3794
Client ID	ZZZZZZ	Batch ID	1635	TestNo	SW6020A			Analysis Date	1/30/2006	SeqNo	55085
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Lead		77000	2000	1000	18180	5870	75	125			S
Sample ID	0601735-001C-MSD	SampType	MSD	TestCode	SW_6020_PB	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3794
Client ID	ZZZZZZ	Batch ID	1635	TestNo	SW6020A			Analysis Date	1/30/2006	SeqNo	55086
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Lead		77000	2000	1000	18180	5880	75	125	76860	0.194	25 S

Qualifiers: E Value above quantitation range

H Holding times for preparation or analysis exceeded

J Analyte detected below quantitation limit

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

RL Reporting Detection Limit

S Spike Recovery outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_6020\_PBFF

Sample ID	MB-1638	SampType	MLBK	TestCode	SW_6020_PB	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3809		
Client ID	PBS	Batch ID	1638	TestNo	SW6020A			Analysis Date	1/31/2006	SeqNo	55273		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		2.0									
Sample ID	LCS-1638	SampType	LCS	TestCode	SW_6020_PB	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3809		
Client ID	LCSS	Batch ID	1638	TestNo	SW6020A			Analysis Date	1/31/2006	SeqNo	55277		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		1100		20	1000	0	107	85	115				

**Qualifiers:** E Value above quantitation range  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit  
R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_6020S**

Sample ID	0601837-004B-MS	SampType	MS	TestCode	SW_6020S	Units	µg/Kg-dry	Prep Date	1/30/2006	RunNo	3797		
Client ID	RM042764:GP2:0800	Batch ID.	1648	TestNo	SW6020A	Analysis Date			1/30/2006	SeqNo	55000		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum			ND	1200	58820	0	0	75	125				S
Antimony			ND	350	58820	0	0	75	125				S
Arsenic			57000	120	58820	3166	91.8	75	125				
Banum			75000	1200	58820	23990	86.8	75	125				
Beryllium			ND	590	58820	0	0	75	125				S
Boron			ND	59000	58820	0	0	75	125				S
Cadmium			58000	240	58820	358.5	97.3	75	125				
Calcium			ND	59000	294100	0	0	75	125				S
Chromium			71000	2400	58820	13770	96.7	75	125				
Cobalt			ND	590	58820	0	0	75	125				S
Copper			78000	1200	58820	22130	94.2	75	125				
Iron			ND	24000	58820	0	0	75	125				S
Lead			62000	1200	58820	9194	90.6	75	125				
Magnesium			ND	29000	294100	0	0	75	125				S
Manganese			ND	1200	58820	0	0	75	125				S
Molybdenum			ND	4700	58820	0	0	75	125				S
Nickel			ND	1200	58820	0	0	75	125				S
Potassium			ND	24000	294100	0	0	75	125				S
Selenium			52000	240	58820	976.6	86.9	75	125				
Silicon			ND	59000	294100	0	0	75	125				S
Silver			54000	120	58820	38.52	91.1	75	125				
Sodium			ND	29000	294100	0	0	75	125				S
Thallium			ND	590	58820	0	0	75	125				S
Titanium			ND	12000	58820	0	0	75	125				S
Vanadium			ND	1200	58820	0	0	75	125				S
Zinc			100000	1200	58820	38050	106	75	125				

Sample ID	0601837-004B-MSD	SampType	MSD	TestCode	SW_6020S	Units	µg/Kg-dry	Prep Date	1/30/2006	RunNo	3797		
Client ID	RM042764:GP2:0800	Batch ID	1648	TestNo	SW6020A <th data-cs="3" data-kind="parent">Analysis Date</th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <td>1/30/2006</td> <th>SeqNo</th> <td>55001</td>	Analysis Date			1/30/2006	SeqNo	55001		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded			J	Analyte detected below quantitation limit		
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit			R	RPD outside accepted recovery limits		
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits						

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_6020S

Sample ID	0601837-004B-MSD	SampType	MSD	TestCode	SW_6020S	Units	µg/Kg-dry	Prep Date	1/30/2006	RunNo	3797	
Client ID	RM042764:GP2:0800	Batch ID	1648	TestNo	SW6020A	Analysis Date			1/30/2006	SeqNo	55001	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		ND	1200	58820	0	0	75	125	0	0	25	S
Antimony		ND	350	58820	0	0	75	125	0	0	25	S
Arsenic	59000	120	58820	3166	95.4	75	125	57150	3.70	25		
Banum	77000	1200	58820	23990	89.3	75	125	75060	1.92	25		
Beryllium	ND	590	58820	0	0	75	125	0	0	25	S	
Boron	ND	59000	58820	0	0	75	125	0	0	25	S	
Cadmium	59000	240	58820	358.5	99.0	75	125	57610	1.65	25		
Calcium	ND	59000	294100	0	0	75	125	0	0	25	S	
Chromium	73000	2400	58820	13770	101	75	125	70650	3.90	25		
Cobalt	ND	590	58820	0	0	75	125	0	0	25	S	
Copper	79000	1200	58820	22130	96.0	75	125	77510	1.37	25		
Iron	ND	24000	58820	0	0	75	125	0	0	25	S	
Lead	63000	1200	58820	9194	91.7	75	125	62460	1.07	25		
Magnesium	ND	29000	294100	0	0	75	125	0	0	25	S	
Manganese	ND	1200	58820	0	0	75	125	0	0	25	S	
Molybdenum	ND	4700	58820	0	0	75	125	0	0	25	S	
Nickel	ND	1200	58820	0	0	75	125	0	0	25	S	
Potassium	ND	24000	294100	0	0	75	125	0	0	25	S	
Selenium	55000	240	58820	976.6	91.3	75	125	52100	4.81	25		
Silicon	ND	59000	294100	0	0	75	125	0	0	25	S	
Silver	55000	120	58820	38.52	94.1	75	125	53630	3.27	25		
Sodium	ND	29000	294100	0	0	75	125	0	0	25	S	
Thallium	ND	590	58820	0	0	75	125	0	0	25	S	
Titanium	ND	12000	58820	0	0	75	125	0	0	25	S	
Vanadium	ND	1200	58820	0	0	75	125	0	0	25	S	
Zinc	100000	1200	58820	38050	107	75	125	100700	0.304	25		

Sample ID	LCS-1648	SampType	LCS	TestCode	SW_6020S	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3797	
Client ID	LCSS	Batch ID	1648	TestNo	SW6020A	Analysis Date			1/30/2006	SeqNo	55009	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded			J	Analyte detected below quantitation limit		
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit			R	RPD outside accepted recovery limits		
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits						

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_6020S**

Sample ID	LCS-1648	SampType	LCS	TestCode	SW_6020S	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3797	
Client ID	LCSS	Batch ID	1648	TestNo	SW6020A			Analysis Date	1/30/2006	SeqNo	55009	
<hr/>												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	950	100	1000	0	94.6	85	115
Barium	ND	1000	1000	0	93.7	85	115
Cadmium	950	200	1000	0	94.7	85	115
Chromium	ND	2000	1000	0	97.0	85	115
Copper	ND	1000	1000	0	95.9	85	115
Lead	1000	1000	1000	0	101	85	115
Selenium	950	200	1000	0	94.8	85	115
Silver	950	100	1000	0	95.5	85	115
Zinc	ND	1000	1000	0	96.2	85	115

Sample ID	MB-1648	SampType	MBLK	TestCode	SW_6020S	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3797	
Client ID	PBS	Batch ID	1648	TestNo	SW6020A			Analysis Date	1/30/2006	SeqNo	55010	
<hr/>												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	10
Barium	ND	100
Cadmium	ND	20
Chromium	ND	200
Copper	ND	100
Lead	ND	100
Selenium	ND	20
Silver	ND	10
Zinc	ND	100

<b>Qualifiers:</b>	<b>E</b>	Value above quantitation range	<b>H</b>	Holding times for preparation or analysis exceeded	<b>J</b>	Analyte detected below quantitation limit
	<b>M</b>	Manual Integration used to determine area response	<b>ND</b>	Not Detected at the Reporting Limit	<b>R</b>	RPD outside accepted recovery limits
	<b>RL</b>	Reporting Detection Limit	<b>S</b>	Spike Recovery outside accepted recovery limits		

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8082S

Sample ID	Ics-1658	SampType	Ics	TestCode	sw_8082s	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3806			
Client ID	LCSS	Batch ID	1658	TestNo	SW8082			Analysis Date	1/31/2006	SeqNo	55867			
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016				140	33	166.7	0	84.9	70	130				
Aroclor 1260				140	33	166.7	0	83.1	70	130				
AROCLOR-1016-1				150	33	166.7	0	89.9	70	130				
AROCLOR-1016-2				130	33	166.7	0	80.0	70	130				
AROCLOR-1016-3				140	33	166.7	0	82.8	70	130				
AROCLOR-1016-4				130	33	166.7	0	79.5	70	130				
AROCLOR-1016-5				150	33	166.7	0	92.1	70	130				
AROCLOR-1260-1				150	33	166.7	0	88.9	70	130				
AROCLOR-1260-2				150	33	166.7	0	87.4	70	130				
AROCLOR-1260-3				130	33	166.7	0	79.5	70	130				
AROCLOR-1260-4				130	33	166.7	0	78.6	70	130				
AROCLOR-1260-5				140	33	166.7	0	81.2	70	130				
Surf Decachlorobiphenyl				7.4		8300		89.6	70	130				
Surf Tetrachloro-m-xylene				7.6		8300		91.5	70	130				

Sample ID	mb-1658	SampType	mblk	TestCode	sw_8082s	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3806			
Client ID.	PBS	Batch ID	1658	TestNo	SW8082			Analysis Date	1/31/2006	SeqNo	55870			
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016				ND	33									
Aroclor 1221				ND	33									
Aroclor 1232				ND	33									
Aroclor 1242				ND	33									
Aroclor 1248				ND	33									
Aroclor 1254				ND	33									
Aroclor 1260				ND	33									
AROCLOR-1016-1				ND	33									
AROCLOR-1016-2				ND	33									
AROCLOR-1016-3				ND	33									
AROCLOR-1016-4				ND	33									
AROCLOR-1016-5				ND	33									

<b>Qualifiers:</b>	<b>E</b>	Value above quantitation range	<b>H</b>	Holding times for preparation or analysis exceeded	<b>J</b>	Analyte detected below quantitation lim
	<b>M</b>	Manual Integration used to determine area response	<b>ND</b>	Not Detected at the Reporting Limit	<b>R</b>	RPD outside accepted recovery limits
	<b>RL</b>	Reporting Detection Limit	<b>S</b>	Spike Recovery outside accepted recovery limits		

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8082S

Sample ID	mb-1658	SampType	mblk	TestCode	sw_8082s	Units.	µg/Kg	Prep Date	1/30/2006	RunNo	3806		
Client ID	PBS	Batch ID	1658	TestNo	SW8082			Analysis Date	1/31/2006 <th>SeqNo</th> <td>55870</td>	SeqNo	55870		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
AROCLOR-1221-1		ND	33										
AROCLOR-1221-2		ND	33										
AROCLOR-1221-3		ND	33										
AROCLOR-1221-4		ND	33										
AROCLOR-1221-5		ND	33										
AROCLOR-1232-1		ND	33										
AROCLOR-1232-2		ND	33										
AROCLOR-1232-3		ND	33										
AROCLOR-1232-4		ND	33										
AROCLOR-1232-5		ND	33										
AROCLOR-1242-1		ND	33										
AROCLOR-1242-2		ND	33										
AROCLOR-1242-3		ND	33										
AROCLOR-1242-4		ND	33										
AROCLOR-1242-5		ND	33										
AROCLOR-1248-1		ND	33										
AROCLOR-1248-2		ND	33										
AROCLOR-1248-3		ND	33										
AROCLOR-1248-4		ND	33										
AROCLOR-1248-5		ND	33										
AROCLOR-1254-1		ND	33										
AROCLOR-1254-2		ND	33										
AROCLOR-1254-3		ND	33										
AROCLOR-1254-4		ND	33										
AROCLOR-1254-5		ND	33										
AROCLOR-1260-1		ND	33										
AROCLOR-1260-2		ND	33										
AROCLOR-1260-3		ND	33										
AROCLOR-1260-4		ND	33										
AROCLOR-1260-5		ND	33										
Surf Decachlorobiphenyl		7 3		8 300			87 5	70	130				

**Qualifiers:** E Value above quantitation range

H Holding times for preparation or analysis exceeded

J Analyte detected below quantitation lim

M Manual integration used to determine area response

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

RL Reporting Detection Limit

S Spike Recovery outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8082S

Sample ID	mb-1658	SampType	mblk	TestCode	sw_8082s	Units	µg/Kg	Prep Date.	1/30/2006	RunNo	3806
Client ID	PBS	Batch ID	1658	TestNo	SW8082			Analysis Date	1/31/2006	SeqNo	55870
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Surr Tetrachloro-m-xylene		8.0			8.300		96.3	70	130		RPDLimit
Sample ID	0601837-002B-MS	SampType	ms	TestCode	sw_8082s	Units	µg/Kg	Prep Date	1/30/2006	RunNo	3806
Client ID	RM042764:GP1:0120	Batch ID	1658	TestNo	SW8082			Analysis Date	1/31/2006	SeqNo	55879
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Aroclor 1016		160		33	166.7	0	93.1	70	130		RPDLimit
Aroclor 1260		140		33	166.7	0	85.8	70	130		Qual
Surr Decachlorobiphenyl		7.2			8.300		86.5	70	130		
Surr Tetrachloro-m-xylene		7.7			8.300		93.0	70	130		
Sample ID	0601837-002B-MSD	SampType	msd	TestCode	sw_8082s	Units	µg/Kg	Prep Date.	1/30/2006	RunNo	3806
Client ID	RM042764:GP1:0120	Batch ID	1658	TestNo	SW8082			Analysis Date	1/31/2006	SeqNo	55880
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Aroclor 1016		170		33	166.7	0	99.2	70	130	155.2	6.37
Aroclor 1260		160		33	166.7	0	93.8	70	130	143.1	8.90
Surr. Decachlorobiphenyl		8.1			8.300		98.2	70	130		25
Surr Tetrachloro-m-xylene		8.4			8.300		101	70	130		0
											25

**Qualifiers:** E Value above quantitation range

H Holding times for preparation or analysis exceeded

J Analyte detected below quantitation limit

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

RL Reporting Detection Limit

S Spike Recovery outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID: 10ug/L LCS1		SampType	LCS	TestCode: SW_8260S		Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	LCSS	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/3/2006	SeqNo	56811		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		460	50	500.0	0	91.5		70	130				
1,1,1-Trichloroethane		440	50	500.0	0	88.0		70	130				
1,1,2,2-Tetrachloroethane		460	50	500.0	0	92.5		70	130				
1,1,2-Trichloro-1,2,2-trifluoroethane		450	50	500.0	0	89.8		70	130				
1,1,2-Trichloroethane		470	50	500.0	0	94.7		70	130				
1,1-Dichloroethane		460	50	500.0	0	92.1		70	130				
1,1-Dichloroethene		450	50	500.0	0	90.9		70	130				
1,1-Dichloropropene		450	50	500.0	0	90.8		70	130				
1,2,3-Trichlorobenzene		570	50	500.0	0	114		70	130				
1,2,3-Trichloropropane		450	50	500.0	0	90.8		70	130				
1,2,3-Trimethylbenzene		490	50	500.0	0	97.7		70	130				
1,2,4-Trichlorobenzene		550	250	500.0	0	110		70	130				
1,2,4-Trimethylbenzene		500	50	500.0	0	99.2		70	130				
1,2-Dibromo-3-chloropropane		500	50	500.0	0	101		70	130				
1,2-Dichlorobenzene		530	50	500.0	0	105		70	130				
1,2-Dichloroethane		460	50	500.0	0	92.7		70	130				
1,2-Dichloropropane		460	50	500.0	0	92.3		70	130				
1,3,5-Trimethylbenzene		480	50	500.0	0	96.3		70	130				
1,3-Dichlorobenzene		490	50	500.0	0	97.8		70	130				
1,3-Dichloropropane		480	50	500.0	0	95.4		70	130				
1,4-Dichlorobenzene		520	50	500.0	0	103		70	130				
2,2-Dichloropropane		410	50	500.0	0	81.6		70	130				
2-Chloroethyl vinyl ether		ND	500	500.0	0	86.5		70	130				
2-Chlorotoluene		470	50	500.0	0	94.0		70	130				
2-Hexanone		ND	2500	500.0	0	104		70	130				
2-Methylnaphthalene		810	250	500.0	0	162		70	130			S	
2-Nitropropane		390	200	500.0	0	77.6		70	130				
4-Chlorotoluene		490	50	500.0	0	97.4		70	130				
Acetone		ND	2500	500.0	0	104		70	130				
Acrylonitrile		460	250	500.0	0	91.4		70	130				
Benzene		470	50	500.0	0	93.2		70	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8260S

Sample ID	10ug/L LCS1	SampType	LCS	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	LCSS	Batch ID:	R3924	TestNo	SW8260B			Analysis Date	2/3/2006	SeqNo	56811		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene		480	50	500.0	0	95.3		70	130				
Bromoform		470	50	500.0	0	93.5		70	130				
Bromochloromethane		440	50	500.0	0	88.2		70	130				
Bromodichloromethane		450	50	500.0	0	90.4		70	130				
Bromomethane		370	250	500.0	0	73.2		70	130				
Carbon disulfide		520	250	500.0	0	103		70	130				
Carbon tetrachloride		460	50	500.0	0	92.4		70	130				
Chlorobenzene		480	50	500.0	0	95.3		70	130				
Chloroethane		500	250	500.0	0	99.5		70	130				
Chloroform		460	50	500.0	0	92.2		70	130				
Chloromethane		320	50	500.0	0	64.2		70	130			S	
cis-1,2-Dichloroethene		460	50	500.0	0	91.1		70	130				
cis-1,3-Dichloropropene		460	50	500.0	0	91.1		70	130				
Dibromochloromethane		460	50	500.0	0	91.9		70	130				
Dibromomethane		470	50	500.0	0	94.7		70	130				
Dichlorodifluoromethane		420	50	500.0	0	83.3		70	130				
Dichloromethane		470	250	500.0	0	94.9		70	130				
Diethyl ether		470	250	500.0	0	94.4		70	130				
Ethyl methacrylate		470	50	500.0	0	93.8		70	130				
Ethylbenzene		490	50	500.0	0	97.6		70	130				
Ethylene dibromide		470	50	500.0	0	93.9		70	130				
Hexachlorobutadiene		570	250	500.0	0	114		70	130				
Hexachloroethane		490	50	500.0	0	97.5		70	130				
Isopropyl ether		450	250	500.0	0	90.8		70	130				
Isopropylbenzene		520	50	500.0	0	103		70	130				
m,p-Xylene		1000	100	1000	0	101		70	130				
Methyl ethyl ketone		540	250	500.0	0	108		70	130				
Methyl Iodide		640	250	500.0	0	129		70	130				
Methyl Isobutyl ketone		ND	500	500.0	0	93.5		70	130				
Methyl tert-butyl ether		900	250	1000	0	90.3		70	130				
Naphthalene		590	250	500.0	0	119		70	130				

<b>Qualifiers:</b>	<b>E</b>	Value above quantitation range	<b>H</b>	Holding times for preparation or analysis exceeded	<b>J</b>	Analyte detected below quantitation lim
	<b>M</b>	Manual Integration used to determine area response	<b>ND</b>	Not Detected at the Reporting Limit	<b>R</b>	RPD outside accepted recovery limits
	<b>RL</b>	Reporting Detection Limit	<b>S</b>	Spike Recovery outside accepted recovery limits		

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	10ug/L LCS1	SampType	LCS	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924
Client ID	LCSS	Batch ID	R3924	TestNo	SW8260B <th></th> <th></th> <th>Analysis Date</th> <td>2/3/2006</td> <th>SeqNo</th> <td>56811</td>			Analysis Date	2/3/2006	SeqNo	56811	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butylbenzene		530	50	500.0	0	106	70	130				
n-Propylbenzene		500	50	500.0	0	101	70	130				
o-Xylene		480	50	500.0	0	96.4	70	130				
p-Isopropyltoluene		490	50	500.0	0	98.3	70	130				
sec-Butylbenzene		500	50	500.0	0	99.1	70	130				
Styrene		500	50	500.0	0	99.7	70	130				
t-Butyl alcohol		2200	1200	2500	0	88.9	70	130				
tert-Amyl Methyl Ether		450	200	500.0	0	90.0	70	130				
tert-Butyl Ethyl Ether		450	250	500.0	0	89.8	70	130				
tert-Butylbenzene		490	50	500.0	0	97.1	70	130				
Tetrachloroethene		500	50	500.0	0	101	70	130				
Toluene		490	50	500.0	0	98.1	70	130				
trans-1,2-Dichloroethene		470	50	500.0	0	93.1	70	130				
trans-1,3-Dichloropropene		470	50	500.0	0	93.0	70	130				
trans-1,4-Dichloro-2-butene		560	50	500.0	0	111	70	130				
Trichloroethene		430	50	500.0	0	86.3	70	130				
Trichlorofluoromethane		400	50	500.0	0	79.9	70	130				
Vinyl chloride		450	40	500.0	0	90.6	70	130				
Xylenes, Total		1500	150	1500	0	99.7	70	130				
Surr 4-Bromofluorobenzene		2800		2500		112	70	130				
Surr Dibromofluoromethane		2600		2500		106	70	130				
Surr. Toluene-d8		2900		2500		115	70	130				

Sample ID	MBLK1 1.0mL	SampType	MBLK	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924
Client ID:	PBS	Batch ID:	R3924	TestNo	SW8260B <th></th> <th></th> <th>Analysis Date.</th> <td>2/3/2006</td> <th>SeqNo</th> <td>56812</td>			Analysis Date.	2/3/2006	SeqNo	56812	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND	50									
1,1,1-Trichloroethane		ND	50									
1,1,2,2-Tetrachloroethane		ND	50									
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	50									

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_8260S**

Sample ID.	MBLK1 1.0mL	SampType	MBLK	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID.	PBS	Batch ID	R3924	TestNo	SW8260B <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Analysis Date.</th> <td>2/3/2006</td> <th>SeqNo</th> <td>56812</td>				Analysis Date.	2/3/2006	SeqNo	56812	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane		ND		50									
1,1-Dichloroethane		ND		50									
1,1-Dichloroethene		ND		50									
1,1-Dichloropropene		ND		50									
1,2,3-Trichlorobenzene		ND		50									
1,2,3-Trichloropropane		ND		50									
1,2,3-Trimethylbenzene		ND		50									
1,2,4-Trichlorobenzene		ND		250									
1,2,4-Trimethylbenzene		ND		50									
1,2-Dibromo-3-chloropropane		ND		50									
1,2-Dichlorobenzene		ND		50									
1,2-Dichloroethane		ND		50									
1,2-Dichloropropane		ND		50									
1,3,5-Trimethylbenzene		ND		50									
1,3-Dichlorobenzene		ND		50									
1,3-Dichloropropane		ND		50									
1,4-Dichlorobenzene		ND		50									
2,2-Dichloropropane		ND		50									
2-Chloroethyl vinyl ether		ND		500									
2-Chlorotoluene		ND		50									
2-Hexanone		ND		2500									
2-Methylnaphthalene		ND		250									
2-Nitropropane		ND		200									
4-Chlorotoluene		ND		50									
Acetone		ND		2500									
Acrylonitrile		ND		250									
Benzene		ND		50									
Bromobenzene		ND		50									
Bromochloromethane		ND		50									
Bromodichloromethane		ND		50									
Bromoform		ND		50									

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	MBLK1 1.0mL	SampType:	MBLK	TestCode	SW_8260S	Units	µg/Kg	Prep Date		RunNo	3924		
Client ID	PBS	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/3/2006	SeqNo	56812		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane		ND		250									
Carbon disulfide		ND		250									
Carbon tetrachloride		ND		50									
Chlorobenzene		ND		50									
Chloroethane		ND		250									
Chloroform		ND		50									
Chloromethane		ND		50									
cis-1,2-Dichloroethene		ND		50									
cis-1,3-Dichloropropene		ND		50									
Dibromochloromethane		ND		50									
Dibromomethane		ND		50									
Dichlorodifluoromethane		ND		50									
Dichloromethane		ND		250									
Diethyl ether		ND		250									
Ethyl methacrylate		ND		50									
Ethylbenzene		ND		50									
Ethylene dibromide		ND		50									
Hexachlorobutadiene		ND		250									
Hexachloroethane		ND		50									
Isopropyl ether		ND		250									
Isopropylbenzene		ND		50									
m,p-Xylene		ND		100									
Methyl ethyl ketone		ND		250									
Methyl Iodide		ND		250									
Methyl isobutyl ketone		ND		500									
Methyl tert-butyl ether		ND		250									
Naphthalene		ND		250									
n-Butylbenzene		ND		50									
n-Propylbenzene		ND		50									
o-Xylene		ND		50									
p-Isopropyltoluene		ND		50									

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	MBLK1 1.0mL	SampType	MBLK	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	PBS	Batch ID	R3924	TestNo	SW8260B				Analysis Date	2/3/2006	SeqNo	56812	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene		ND	50										
Styrene		ND	50										
t-Butyl alcohol		ND	1200										
tert-Amyl Methyl Ether		ND	200										
tert-Butyl Ethyl Ether		ND	250										
tert-Butylbenzene		ND	50										
Tetrachloroethene		ND	50										
Toluene		ND	50										
trans-1,2-Dichloroethene		ND	50										
trans-1,3-Dichloropropene		ND	50										
trans-1,4-Dichloro-2-butene		ND	50										
Trichloroethene		ND	50										
Trichlorofluoromethane		ND	50										
Vinyl chloride		ND	40										
Xylenes, Total		ND	150										
Surrogate 4-Bromofluorobenzene	2800		2500				112	70	130				
Surrogate Dibromofluoromethane	2700		2500				107	70	130				
Surrogate Toluene-d8	2900		2500				116	70	130				

Sample ID	0601837-008AMS	SampType	MS	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	Equipment Blank	Batch ID	R3924	TestNo	SW8260B				Analysis Date	2/3/2006	SeqNo	56814	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		430	50	500.0	0	86.7	70	130					
1,1,1-Trichloroethane		420	50	500.0	0	83.9	70	130					
1,1,2,2-Tetrachloroethane		420	50	500.0	0	84.3	70	130					
1,1,2-Trichloro-1,2,2-trifluoroethane		430	50	500.0	0	85.1	70	130					
1,1,2-Trichloroethane		390	50	500.0	0	78.8	70	130					
1,1-Dichloroethane		440	50	500.0	0	87.0	70	130					
1,1-Dichloroethene		410	50	500.0	0	82.6	70	130					
1,1-Dichloropropene		440	50	500.0	0	87.0	70	130					

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded			J	Analyte detected below quantitation limit		
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit			R	RPD outside accepted recovery limits		
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits						

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_8260S**

Sample ID	0601837-008AMS	SampType	MS	TestCode	SW_8260S	Units.	µg/Kg	Prep Date			RunNo	3924	
Client ID	Equipment Blank	Batch ID	R3924	TestNo	SW8260B				Analysis Date	2/3/2006	SeqNo	56814	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichlorobenzene		470		50	500.0	0	93.6	70	130				
1,2,3-Trichloropropane		450		50	500.0	0	90.3	70	130				
1,2,3-Trimethylbenzene		440		50	500.0	0	88.6	70	130				
1,2,4-Trichlorobenzene		480		250	500.0	0	96.5	70	130				
1,2,4-Trimethylbenzene		460		50	500.0	0	92.7	70	130				
1,2-Dibromo-3-chloropropane		440		50	500.0	0	87.9	70	130				
1,2-Dichlorobenzene		480		50	500.0	0	96.2	70	130				
1,2-Dichloroethane		520		50	500.0	0	104	70	130				
1,2-Dichloropropane		400		50	500.0	0	80.7	70	130				
1,3,5-Trimethylbenzene		470		50	500.0	0	93.0	70	130				
1,3-Dichlorobenzene		460		50	500.0	0	91.9	70	130				
1,3-Dichloropropane		410		50	500.0	0	81.5	70	130				
1,4-Dichlorobenzene		470		50	500.0	0	94.7	70	130				
2,2-Dichloropropane		390		50	500.0	0	78.2	70	130				
2-Chloroethyl vinyl ether		ND		500	500.0	0	74.3	70	130				
2-Chlorotoluene		450		50	500.0	0	90.7	70	130				
2-Hexanone		ND		2500	500.0	0	96.3	70	130				
2-Methylnaphthalene		450		250	500.0	0	90.6	70	130				
2-Nitropropane		320		200	500.0	0	63.1	70	130				S
4-Chlorotoluene		470		50	500.0	0	94.6	70	130				
Acetone		ND		2500	500.0	0	117	70	130				
Acrylonitrile		450		250	500.0	0	90.6	70	130				
Benzene		490		50	500.0	0	98.2	70	130				
Bromobenzene		460		50	500.0	0	92.8	70	130				
Bromochloromethane		470		50	500.0	0	94.0	70	130				
Bromodichloromethane		380		50	500.0	0	76.0	70	130				
Bromoform		420		50	500.0	0	84.6	70	130				
Bromomethane		390		250	500.0	0	77.4	70	130				
Carbon disulfide		460		250	500.0	0	91.9	70	130				
Carbon tetrachloride		420		50	500.0	0	83.4	70	130				
Chlorobenzene		450		50	500.0	0	89.7	70	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	0601837-008AMS	SampType	MS	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	Equipment Blank	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/3/2006	SeqNo	56814		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane		460	250	500.0	0	91.0		70	130				
Chloroform		440	50	500.0	0	88.6		70	130				
Chloromethane		400	50	500.0	0	80.8		70	130				
cis-1,2-Dichloroethene		420	50	500.0	0	84.2		70	130				
cis-1,3-Dichloropropene		390	50	500.0	0	77.8		70	130				
Dibromochloromethane		390	50	500.0	0	78.8		70	130				
Dibromomethane		420	50	500.0	0	83.7		70	130				
Dichlorodifluoromethane		390	50	500.0	0	78.0		70	130				
Dichloromethane		460	250	500.0	0	92.2		70	130				
Diethyl ether		450	250	500.0	0	90.5		70	130				
Ethyl methacrylate		400	50	500.0	0	80.1		70	130				
Ethylbenzene		460	50	500.0	0	91.8		70	130				
Ethylene dibromide		410	50	500.0	0	82.3		70	130				
Hexachlorobutadiene		490	250	500.0	0	97.8		70	130				
Hexachloroethane		400	50	500.0	0	80.3		70	130				
Isopropyl ether		440	250	500.0	0	87.8		70	130				
Isopropylbenzene		470	50	500.0	0	94.1		70	130				
m,p-Xylene		950	100	1000	0	94.9		70	130				
Methyl ethyl ketone		510	250	500.0	0	103		70	130				
Methyl iodide		620	250	500.0	0	124		70	130				
Methyl isobutyl ketone		ND	500	500.0	0	83.4		70	130				
Methyl tert-butyl ether		880	250	1000	0	88.5		70	130				
Naphthalene		470	250	500.0	0	93.6		70	130				
n-Butylbenzene		470	50	500.0	0	93.6		70	130				
n-Propylbenzene		460	50	500.0	0	92.8		70	130				
o-Xylene		460	50	500.0	0	92.1		70	130				
p-Isopropyltoluene		460	50	500.0	0	91.2		70	130				
sec-Butylbenzene		450	50	500.0	0	89.4		70	130				
Styrene		470	50	500.0	0	94.6		70	130				
t-Butyl alcohol		2200	1200	2500	0	88.1		70	130				
tert-Amyl Methyl Ether		520	200	500.0	0	103		70	130				

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_8260S**

Sample ID	0601837-008AMS	SampType	MS	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924		
Client ID	Equipment Blank	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/3/2006	SeqNo	56814			
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Butyl Ethyl Ether				430	250	500.0	0	85.7	70	130				
tert-Butylbenzene				460	50	500.0	0	91.1	70	130				
Tetrachloroethene				440	50	500.0	0	88.8	70	130				
Toluene				410	50	500.0	0	82.3	70	130				
trans-1,2-Dichloroethene				440	50	500.0	0	87.9	70	130				
trans-1,3-Dichloropropene				390	50	500.0	0	77.5	70	130				
trans-1,4-Dichloro-2-butene				540	50	500.0	0	108	70	130				
Trichloroethene				420	50	500.0	0	84.2	70	130				
Trichlorofluoromethane				240	50	500.0	0	48.7	70	130				S
Vinyl chloride				420	40	500.0	0	84.8	70	130				
Xylenes, Total				1400	150	1500	0	94.0	70	130				
Surrogate 4-Bromofluorobenzene				2800		2500		112	70	130				
Surrogate Dibromofluoromethane				2700		2500		109	70	130				
Surrogate Toluene-d8				2600		2500		103	70	130				

Sample ID	0601837-008AMSD	SampType	MSD	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924		
Client ID	Equipment Blank	Batch ID	R3924	TestNo.	SW8260B			Analysis Date	2/3/2006	SeqNo	56815			
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane				490	50	500.0	0	98.8	70	130	433.5	13.0	25	
1,1,1-Trichloroethane				490	50	500.0	0	98.6	70	130	419.5	16.1	25	
1,1,2,2-Tetrachloroethane				500	50	500.0	0	99.9	70	130	421.5	16.9	25	
1,1,2-Trichloro-1,2,2-trifluoroethane				510	50	500.0	0	101	70	130	425.5	17.4	25	
1,1,2-Trichloroethane				520	50	500.0	0	104	70	130	394.0	28.0	25	R
1,1-Dichloroethane				500	50	500.0	0	101	70	130	435.0	14.9	25	
1,1-Dichloroethene				480	50	500.0	0	96.4	70	130	413.0	15.4	25	
1,1-Dichloropropene				490	50	500.0	0	98.4	70	130	435.0	12.3	25	
1,2,3-Trichlorobenzene				550	50	500.0	0	110	70	130	468.0	16.5	25	
1,2,3-Trichloropropane				500	50	500.0	0	101	70	130	451.5	10.7	25	
1,2,3-Trimethylbenzene				520	50	500.0	0	104	70	130	443.0	16.4	25	
1,2,4-Trichlorobenzene				540	250	500.0	0	108	70	130	482.5	11.5	25	

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_8260S**

Sample ID	0601837-008AMSD	SampType	MSD	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924		
Client ID	Equipment Blank	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/3/2006	SeqNo	56815			
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Tnmethylbenzene				510	50	500.0	0	103	70	130	463.5	10.1	25	
1,2-Dibromo-3-chloropropane				540	50	500.0	0	107	70	130	439.5	19.6	25	
1,2-Dichlorobenzene				550	50	500.0	0	110	70	130	481.0	13.0	25	
1,2-Dichloroethane				520	50	500.0	0	103	70	130	518.5	0.483	25	
1,2-Dichloropropane				510	50	500.0	0	102	70	130	403.5	22.8	25	
1,3,5-Tnmethylbenzene				520	50	500.0	0	105	70	130	465.0	12.0	25	
1,3-Dichlorobenzene				510	50	500.0	0	103	70	130	459.5	10.9	25	
1,3-Dichloropropane				530	50	500.0	0	106	70	130	407.5	26.0	25	
1,4-Dichlorobenzene				550	50	500.0	0	109	70	130	473.5	14.1	25	
2,2-Dichloropropane				440	50	500.0	0	88.5	70	130	391.0	12.4	25	
2-Chloroethyl vinyl ether				ND	500	500.0	0	93.6	70	130	371.5	0	25	
2-Chlorotoluene				510	50	500.0	0	102	70	130	453.5	11.2	25	
2-Hexanone				ND	2500	500.0	0	114	70	130	481.5	0	25	
2-Methylnaphthalene				540	250	500.0	0	108	70	130	453.0	17.8	25	
2-Nitropropane				410	200	3500	0	11.7	70	130	315.5	26.1	0	
4-Chlorotoluene				530	50	500.0	0	105	70	130	473.0	10.6	25	
Acetone				ND	2500	500.0	0	128	70	130	583.0	0	25	
Acrylonitrile				510	250	500.0	0	103	70	130	453.0	12.5	25	
Benzene				510	50	500.0	0	102	70	130	491.0	3.99	25	
Bromobenzene				530	50	500.0	0	105	70	130	464.0	12.6	25	
Bromochloromethane				530	50	500.0	0	105	70	130	470.0	11.3	25	
Bromodichloromethane				480	50	500.0	0	95.3	70	130	380.0	22.5	25	
Bromoform				490	50	500.0	0	98.5	70	130	423.0	15.2	25	
Bromomethane				560	250	500.0	0	112	70	130	387.0	36.3	25	
Carbon disulfide				540	250	500.0	0	107	70	130	459.5	15.6	25	
Carbon tetrachloride				480	50	500.0	0	96.8	70	130	417.0	14.9	25	
Chlorobenzene				520	50	500.0	0	103	70	130	448.5	13.9	25	
Chloroethane				470	250	500.0	0	94.4	70	130	455.0	3.67	25	
Chloroform				500	50	500.0	0	100	70	130	443.0	12.4	25	
Chloromethane				440	50	500.0	0	88.1	70	130	404.0	8.64	25	
cis-1,2-Dichloroethylene				510	50	500.0	0	101	70	130	421.0	18.3	25	

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_8260S**

Sample ID	0601837-008AMSD	SampType	MSD	TestCode	SW_8260S	Units	µg/Kg	Prep Date:			RunNo	3924		
Client ID	Equipment Blank	Batch ID	R3924	TestNo	SW8260B	Analysis Date.			2/3/2006	SeqNo	56815			
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene				510	50	500.0	0	102	70	130	389.0	26.4	25	R
Dibromochloromethane				490	50	500.0	0	97.4	70	130	394.0	21.1	25	
Dibromomethane				530	50	500.0	0	106	70	130	418.5	23.0	25	
Dichlorodifluoromethane				440	50	500.0	0	87.2	70	130	390.0	11.1	25	
Dichloromethane				550	250	500.0	0	109	70	130	461.0	17.1	25	
Diethyl ether				550	250	500.0	0	110	70	130	452.5	19.8	25	
Ethyl methacrylate				520	50	500.0	0	105	70	130	400.5	26.5	25	R
Ethylbenzene				530	50	500.0	0	106	70	130	459.0	13.9	25	
Ethylene dibromide				520	50	500.0	0	103	70	130	411.5	22.6	25	
Hexachlorobutadiene				550	250	500.0	0	109	70	130	489.0	10.9	25	
Hexachloroethane				480	50	500.0	0	96.2	70	130	401.5	18.0	25	
Isopropyl ether				500	250	500.0	0	101	70	130	439.0	13.6	25	
Isopropylbenzene				530	50	500.0	0	107	70	130	470.5	12.6	25	
m,p-Xylene				1100	100	1000	0	108	70	130	949.0	12.8	25	
Methyl ethyl ketone				600	250	500.0	0	120	70	130	512.5	15.4	25	
Methyl iodide				790	250	500.0	0	159	70	130	619.0	24.8	25	S
Methyl isobutyl ketone				520	500	500.0	0	104	70	130	417.0	22.2	25	
Methyl tert-butyl ether				1000	250	1000	0	101	70	130	885.0	13.3	25	
Naphthalene				550	250	500.0	0	110	70	130	468.0	15.7	25	
n-Butylbenzene				540	50	500.0	0	109	70	130	468.0	14.8	25	
n-Propylbenzene				510	50	500.0	0	101	70	130	464.0	8.86	25	
o-Xylene				520	50	500.0	0	105	70	130	460.5	12.9	25	
p-Isopropyltoluene				520	50	500.0	0	103	70	130	456.0	12.4	25	
sec-Butylbenzene				520	50	500.0	0	104	70	130	447.0	15.0	25	
Styrene				530	50	500.0	0	106	70	130	473.0	11.7	25	
t-Butyl alcohol				2500	1200	2500	0	99.9	70	130	2202	12.5	25	
tert-Amyl Methyl Ether				510	200	500.0	0	102	70	130	515.0	0.682	25	
tert-Butyl Ethyl Ether				490	250	500.0	0	98.7	70	130	428.5	14.1	25	
tert-Butylbenzene				500	50	500.0	0	101	70	130	455.5	9.91	25	
Tetrachloroethylene				550	50	500.0	0	111	70	130	444.0	22.0	25	
Toluene				520	50	500.0	0	103	70	130	411.5	22.6	25	

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8260S

Sample ID	0601837-008AMSD	SampType.	MSD	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924
Client ID	Equipment Blank	Batch ID	R3924	TestNo	SW8260B	Analysis Date			2/3/2006	SeqNo	56815	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene		510	50	500.0	0	103	70	130	439.5	15.7	25	
trans-1,3-Dichloropropene		490	50	500.0	0	97.9	70	130	387.5	23.3	25	
trans-1,4-Dichloro-2-butene		560	50	500.0	0	112	70	130	542.0	3.27	25	
Trichloroethene		470	50	500.0	0	94.5	70	130	421.0	11.5	25	
Trichlorofluoromethane		320	50	500.0	0	63.0	70	130	243.5	25.6	25	
Vinyl chloride		490	40	500.0	0	97.1	70	130	424.0	13.5	25	
Xylenes, Total		1600	150	1500	0	107	70	130	1410	12.8	25	
Surrogate 4-Bromofluorobenzene		2800		2500		111	70	130		0	25	
Surrogate Dibromofluoromethane		2700		2500		109	70	130		0	25	
Surrogate Toluene-d8		2800		2500		113	70	130		0	25	

Sample ID	10ug/L LCS1	SampType	LCS	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924
Client ID	LCSS	Batch ID.	R3924	TestNo	SW8260B	Analysis Date			2/4/2006	SeqNo	56830	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		480	50	500.0	0	96.5	70	130				
1,1,1-Trichloroethane		530	50	500.0	0	105	70	130				
1,1,2,2-Tetrachloroethane		500	50	500.0	0	100	70	130				
1,1,2-Trichloro-1,2,2-trifluoroethane		550	50	500.0	0	110	70	130				
1,1,2-Trichloroethane		510	50	500.0	0	102	70	130				
1,1-Dichloroethane		520	50	500.0	0	104	70	130				
1,1-Dichloroethene		520	50	500.0	0	104	70	130				
1,1-Dichloropropene		530	50	500.0	0	106	70	130				
1,2,3-Trichlorobenzene		580	50	500.0	0	115	70	130				
1,2,3-Trichloropropane		490	50	500.0	0	97.7	70	130				
1,2,3-Trimethylbenzene		530	50	500.0	0	106	70	130				
1,2,4-Trichlorobenzene		560	250	500.0	0	112	70	130				
1,2,4-Trimethylbenzene		520	50	500.0	0	103	70	130				
1,2-Dibromo-3-chloropropane		500	50	500.0	0	100	70	130				
1,2-Dichlorobenzene		550	50	500.0	0	111	70	130				
1,2-Dichloroethane		520	50	500.0	0	105	70	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	10ug/L LCS1	SampType	LCS	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	LCSS	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/4/2006	SeqNo	56830		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane		500		50	500.0	0	100	70	130				
1,3,5-Trimethylbenzene		530		50	500.0	0	106	70	130				
1,3-Dichlorobenzene		520		50	500.0	0	103	70	130				
1,3-Dichloropropane		500		50	500.0	0	101	70	130				
1,4-Dichlorobenzene		560		50	500.0	0	111	70	130				
2,2-Dichloropropane		340		50	500.0	0	68.5	70	130				S
2-Chloroethyl vinyl ether		ND		500	500.0	0	92.3	70	130				
2-Chlorotoluene		520		50	500.0	0	104	70	130				
2-Hexanone		ND		2500	500.0	0	80.4	70	130				
2-Methylnaphthalene		710		250	500.0	0	143	70	130				S
2-Nitropropane		390		200	500.0	0	78.6	70	130				
4-Chlorotoluene		530		50	500.0	0	106	70	130				
Acetone		ND		2500	500.0	0	75.8	70	130				
Acrylonitrile		520		250	500.0	0	104	70	130				
Benzene		520		50	500.0	0	104	70	130				
Bromobenzene		530		50	500.0	0	106	70	130				
Bromoform		510		50	500.0	0	103	70	130				
Bromochloromethane		460		50	500.0	0	91.0	70	130				
Bromodichloromethane		450		50	500.0	0	90.8	70	130				
Bromoform		660		250	500.0	0	132	70	130				S
Carbon disulfide		560		250	500.0	0	112	70	130				
Carbon tetrachloride		510		50	500.0	0	102	70	130				
Chlorobenzene		520		50	500.0	0	104	70	130				
Chloroethane		600		250	500.0	0	119	70	130				
Chloroform		510		50	500.0	0	102	70	130				
Chloromethane		480		50	500.0	0	95.3	70	130				
cis-1,2-Dichloroethene		510		50	500.0	0	101	70	130				
cis-1,3-Dichloropropene		470		50	500.0	0	93.0	70	130				
Dibromochloromethane		460		50	500.0	0	92.2	70	130				
Dibromomethane		500		50	500.0	0	99.7	70	130				
Dichlorodifluoromethane		480		50	500.0	0	96.3	70	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_8260S**

Sample ID	10ug/L LCS1	SampType	LCS	TestCode	SW_8260S	Units	µg/Kg	Prep Date:			RunNo:	3924
Client ID	LCSS	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/4/2006	SeqNo:	56830	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichloromethane		540	250	500.0	0	109	70	130				
Diethyl ether		530	250	500.0	0	106	70	130				
Ethyl methacrylate		500	50	500.0	0	100	70	130				
Ethylbenzene		530	50	500.0	0	106	70	130				
Ethylene dibromide		500	50	500.0	0	99.0	70	130				
Hexachlorobutadiene		560	250	500.0	0	112	70	130				
Hexachloroethane		480	50	500.0	0	95.9	70	130				
Isopropyl ether		520	250	500.0	0	103	70	130				
Isopropylbenzene		550	50	500.0	0	109	70	130				
m,p-Xylene		1100	100	1000	0	108	70	130				
Methyl ethyl ketone		400	250	500.0	0	80.2	70	130				
Methyl Iodide		900	250	500.0	0	180	70	130				S
Methyl isobutyl ketone		ND	500	500.0	0	98.5	70	130				
Methyl tert-butyl ether		1000	250	1000	0	100	70	130				
Naphthalene		580	250	500.0	0	117	70	130				
n-Butylbenzene		560	50	500.0	0	111	70	130				
n-Propylbenzene		540	50	500.0	0	108	70	130				
o-Xylene		500	50	500.0	0	101	70	130				
p-Isopropyltoluene		520	50	500.0	0	104	70	130				
sec-Butylbenzene		520	50	500.0	0	104	70	130				
Styrene		520	50	500.0	0	105	70	130				
t-Butyl alcohol		2500	1200	2500	0	101	70	130				
tert-Amyl Methyl Ether		490	200	500.0	0	98.8	70	130				
tert-Butyl Ethyl Ether		500	250	500.0	0	99.8	70	130				
tert-Butylbenzene		530	50	500.0	0	107	70	130				
Tetrachloroethene		460	50	500.0	0	91.5	70	130				
Toluene		530	50	500.0	0	105	70	130				
trans-1,2-Dichloroethene		530	50	500.0	0	106	70	130				
trans-1,3-Dichloropropene		470	50	500.0	0	93.1	70	130				
trans-1,4-Dichloro-2-butene		530	50	500.0	0	107	70	130				
Trichloroethene		470	50	500.0	0	94.3	70	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8260S

Sample ID	10µg/L LCS1	SampType	LCS	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	LCSS	Batch ID	R3924	TestNo	SW8260B <th></th> <th></th> <th>Analysis Date</th> <td>2/4/2006</td> <th>SeqNo</th> <td>56830</td>			Analysis Date	2/4/2006	SeqNo	56830		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	490	50	500.0	0	98.3	70	130						
Vinyl chloride	510	40	500.0	0	102	70	130						
Xylenes, Total	1600	150	1500	0	106	70	130						
Sur. 4-Bromofluorobenzene	2800		2500		113	70	130						
Sur. Dibromofluoromethane	2700		2500		109	70	130						
Sur. Toluene-d8	2800		2500		113	70	130						
Sample ID	MBLK1 1.0mL	SampType	MBLK	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	PBS	Batch ID	R3924	TestNo	SW8260B <th></th> <th></th> <th>Analysis Date</th> <td>2/4/2006</td> <th>SeqNo</th> <td>56831</td>			Analysis Date	2/4/2006	SeqNo	56831		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	50											
1,1,1-Trichloroethane	ND	50											
1,1,2,2-Tetrachloroethane	ND	50											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50											
1,1,2-Trichloroethane	ND	50											
1,1-Dichloroethane	ND	50											
1,1-Dichloroethene	ND	50											
1,1-Dichloropropene	ND	50											
1,2,3-Trichlorobenzene	ND	50											
1,2,3-Trichloropropane	ND	50											
1,2,3-Trimethylbenzene	ND	50											
1,2,4-Trichlorobenzene	ND	250											
1,2,4-Trimethylbenzene	ND	50											
1,2-Dibromo-3-chloropropane	ND	50											
1,2-Dichlorobenzene	ND	50											
1,2-Dichloroethane	ND	50											
1,2-Dichloropropane	ND	50											
1,3,5-Trimethylbenzene	ND	50											
1,3-Dichlorobenzene	ND	50											
1,3-Dichloropropane	ND	50											

<b>Qualifiers:</b>	<b>E</b>	Value above quantitation range	<b>H</b>	Holding times for preparation or analysis exceeded	<b>J</b>	Analyte detected below quantitation limit
	<b>M</b>	Manual Integration used to determine area response	<b>ND</b>	Not Detected at the Reporting Limit	<b>R</b>	RPD outside accepted recovery limits
	<b>RL</b>	Reporting Detection Limit	<b>S</b>	Spike Recovery outside accepted recovery limits		

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	MLBK1 1.0mL	SampType	MLBK	TestCode	SW_8260S	Units	µg/Kg	Prep Date		RunNo	3924		
Client ID	PBS	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/4/2006	SeqNo	56831		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene		ND			50								
2,2-Dichloropropane		ND			50								
2-Chloroethyl vinyl ether		ND			500								
2-Chlorotoluene		ND			50								
2-Hexanone		ND			2500								
2-Methylnaphthalene		ND			250								
2-Nitropropane		ND			200								
4-Chlorotoluene		ND			50								
Acetone		ND			2500								
Acrylonitrile		ND			250								
Benzene		ND			50								
Bromobenzene		ND			50								
Bromochloromethane		ND			50								
Bromodichloromethane		ND			50								
Bromoform		ND			50								
Bromomethane		ND			250								
Carbon disulfide		ND			250								
Carbon tetrachloride		ND			50								
Chlorobenzene		ND			50								
Chloroethane		ND			250								
Chloroform		ND			50								
Chloromethane		ND			50								
cis-1,2-Dichloroethene		ND			50								
cis-1,3-Dichloropropene		ND			50								
Dibromochloromethane		ND			50								
Dibromomethane		ND			50								
Dichlorodifluoromethane		ND			50								
Dichloromethane		ND			250								
Diethyl ether		ND			250								
Ethyl methacrylate		ND			50								
Ethylbenzene		ND			50								

**Qualifiers:** E Value above quantitation range  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim  
R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8260S

Sample ID	MBLK1 1.0mL	SampType	MBLK	TestCode	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924	
Client ID	PBS	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/4/2006	SeqNo	56831		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene dibromide		ND		50									
Hexachlorobutadiene		ND		250									
Hexachloroethane		ND		50									
Isopropyl ether		ND		250									
Isopropylbenzene		ND		50									
m,p-Xylene		ND		100									
Methyl ethyl ketone		ND		250									
Methyl Iodide		ND		250									
Methyl isobutyl ketone		ND		500									
Methyl tert-butyl ether		ND		250									
Naphthalene		ND		250									
n-Butylbenzene		ND		50									
n-Propylbenzene		ND		50									
o-Xylene		ND		50									
p-Isopropyltoluene		ND		50									
sec-Butylbenzene		ND		50									
Styrene		ND		50									
t-Butyl alcohol		ND		1200									
tert-Amyl Methyl Ether		ND		200									
tert-Butyl Ethyl Ether		ND		250									
tert-Butylbenzene		ND		50									
Tetrachloroethene		ND		50									
Toluene		ND		50									
trans-1,2-Dichloroethene		ND		50									
trans-1,3-Dichloropropene		ND		50									
trans-1,4-Dichloro-2-butene		ND		50									
Trichloroethene		ND		50									
Trichlorofluoromethane		ND		50									
Vinyl chloride		ND		40									
Xylenes, Total		ND		150									
Surr 4-Bromofluorobenzene		2900		2500			115	70	130				

**Qualifiers:** E Value above quantitation range  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim  
R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	MBLK1 1.0mL	SampType	MBLK	TestCode.	SW_8260S	Units	µg/Kg	Prep Date			RunNo	3924
Client ID	PBS	Batch ID	R3924 <th>TestNo</th> <td>SW8260B<th></th><th></th><th>Analysis Date</th><td>2/4/2006</td><th>SeqNo</th><td>56831</td></td>	TestNo	SW8260B <th></th> <th></th> <th>Analysis Date</th> <td>2/4/2006</td> <th>SeqNo</th> <td>56831</td>			Analysis Date	2/4/2006	SeqNo	56831	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr Dibromofluoromethane		2700		2500		107	70	130				
Surr Toluene-d8		2900		2500		118	70	130				

Sample ID	0602038-015AMS	SampType	MS	TestCode	SW_8260S	Units	µg/Kg-dry	Prep Date			RunNo	3924
Client ID	ZZZZZZ	Batch ID	R3924 <th>TestNo</th> <td>SW8260B<th></th><th></th><th>Analysis Date</th><td>2/4/2006</td><th>SeqNo</th><td>56856</td></td>	TestNo	SW8260B <th></th> <th></th> <th>Analysis Date</th> <td>2/4/2006</td> <th>SeqNo</th> <td>56856</td>			Analysis Date	2/4/2006	SeqNo	56856	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		560	55	553.5	0	100	70	130				
1,1,1-Trichloroethane		490	55	553.5	0	89.4	70	130				
1,1,2,2-Tetrachloroethane		640	55	553.5	0	115	70	130				
1,1,2-Trichloro-1,2,2-trifluoroethane		530	55	553.5	0	95.7	70	130				
1,1,2-Trichloroethane		590	55	553.5	0	106	70	130				
1,1-Dichloroethane		520	55	553.5	0	94.0	70	130				
1,1-Dichloroethene		490	55	553.5	0	88.3	70	130				
1,1-Dichloropropene		530	55	553.5	0	95.0	70	130				
1,2,3-Trichlorobenzene		570	55	553.5	0	104	70	130				
1,2,3-Trichloropropane		570	55	553.5	0	103	70	130				
1,2,3-Trimethylbenzene		580	55	553.5	28.78	99.5	70	130				
1,2,4-Trichlorobenzene		580	280	553.5	0	106	70	130				
1,2,4-Trimethylbenzene		610	55	553.5	44.28	103	70	130				
1,2-Dibromo-3-chloropropane		600	55	553.5	0	109	70	130				
1,2-Dichlorobenzene		610	55	553.5	0	110	70	130				
1,2-Dichloroethane		530	55	553.5	0	96.2	70	130				
1,2-Dichloropropane		550	55	553.5	0	98.8	70	130				
1,3,5-Trimethylbenzene		620	55	553.5	43.73	104	70	130				
1,3-Dichlorobenzene		590	55	553.5	0	107	70	130				
1,3-Dichloropropane		570	55	553.5	0	103	70	130				
1,4-Dichlorobenzene		600	55	553.5	0	109	70	130				
2,2-Dichloropropane		290	55	553.5	0	52.0	70	130				S
2-Chloroethyl vinyl ether		ND	550	553.5	0	96.5	70	130				
2-Chlorotoluene		580	55	553.5	0	104	70	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8260S

Sample ID	0602038-015AMS	SampType	MS	TestCode	SW_8260S	Units	µg/Kg-dry	Prep Date			RunNo	3924		
Client ID	ZZZZZZ	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/4/2006	SeqNo	56856			
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Hexanone		ND	2800	553.5		0	90.2	70	130					
2-Methylnaphthalene		640	280	553.5		0	115	70	130					
2-Nitropropane		770	220	553.5		0	139	70	130				S	
4-Chlorotoluene		570	55	553.5		0	104	70	130					
Acetone		ND	2800	553.5		0	81.5	70	130					
Acrylonitrile		600	280	553.5		0	109	70	130					
Benzene		560	55	553.5		0	102	70	130					
Bromobenzene		580	55	553.5		0	104	70	130					
Bromoform		590	55	553.5		0	106	70	130					
Bromochloromethane		500	55	553.5		0	90.0	70	130					
Bromodichloromethane		530	55	553.5		0	96.3	70	130					
Bromoform		660	280	553.5		0	120	70	130					
Bromomethane		540	280	553.5		0	97.6	70	130					
Carbon disulfide		500	55	553.5		0	89.7	70	130					
Carbon tetrachloride		570	55	553.5		0	103	70	130					
Chlorobenzene		540	280	553.5		0	98.3	70	130					
Chloroethane		520	55	553.5		0	94.7	70	130					
Chloroform		510	55	553.5		0	92.9	70	130					
Chloromethane		490	55	553.5		0	89.0	70	130					
cis-1,2-Dichloroethene		510	55	553.5		0	91.8	70	130					
cis-1,3-Dichloropropene		520	55	553.5		0	94.5	70	130					
Dibromochloromethane		500	55	553.5		0	109	70	130					
Dibromomethane		560	55	553.5		0	83.9	70	130					
Dichlorodifluoromethane		460	55	553.5		0	100	70	130					
Dichloromethane		580	280	553.5		0	104	70	130					
Ethyl methacrylate		610	55	553.5		31.00	104	70	130					
Ethylbenzene		610	55	553.5		0	110	70	130					
Ethylene dibromide		600	55	553.5		0	108	70	130					
Hexachlorobutadiene		530	280	553.5		0	96.5	70	130					
Hexachloroethane		470	55	553.5		0	84.6	70	130					
Isopropyl ether		540	280	553.5		0	96.7	70	130					

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8260S

Sample ID	0602038-015AMS	SampType	MS	TestCode	SW_8260S	Units	µg/Kg-dry	Prep Date			RunNo	3924	
Client ID	ZZZZZZ	Batch ID	R3924	TestNo	SW8260B <th></th> <th></th> <th>Analysis Date</th> <td>2/4/2006</td> <th>SeqNo</th> <td>56856</td>			Analysis Date	2/4/2006	SeqNo	56856		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene		610		55	553.5	20.48	107	70	130				
m,p-Xylene		1200		110	1107	64.76	107	70	130				
Methyl ethyl ketone		450		280	553.5	0	80.7	70	130				
Methyl Iodide		1200		280	553.5	0	211	70	130			S	
Methyl isobutyl ketone		610		550	553.5	0	111	70	130				
Methyl tert-butyl ether		1100		280	1107	0	101	70	130				
Naphthalene		640		280	553.5	0	116	70	130				
n-Butylbenzene		570		55	553.5	25.46	97.5	70	130				
n-Propylbenzene		630		55	553.5	56.46	104	70	130				
o-Xylene		580		55	553.5	0	105	70	130				
p-Isopropyltoluene		560		55	553.5	0	101	70	130				
sec-Butylbenzene		570		55	553.5	0	102	70	130				
Styrene		610		55	553.5	0	109	70	130				
t-Butyl alcohol		2900		1400	2767	0	106	70	130				
tert-Amyl Methyl Ether		560		220	553.5	0	101	70	130				
tert-Butyl Ethyl Ether		540		280	553.5	0	98.1	70	130				
tert-Butylbenzene		570		55	553.5	0	103	70	130				
Tetrachloroethene		370		55	553.5	0	67.3	70	130			S	
Toluene		590		55	553.5	0	106	70	130				
trans-1,2-Dichloroethene		520		55	553.5	0	94.6	70	130				
trans-1,3-Dichloropropene		500		55	553.5	0	90.8	70	130				
trans-1,4-Dichloro-2-butene		670		55	553.5	0	121	70	130				
Trichloroethene		520		55	553.5	0	94.8	70	130				
Trichlorofluoromethane		340		55	553.5	0	61.2	70	130			S	
Vinyl chloride		510		44	553.5	0	91.5	70	130				
Xylenes, Total		1800		170	1660	64.76	106	70	130				
Sur. 4-Bromofluorobenzene		3000			2767		110	70	130				
Sur. Dibromofluoromethane		2900			2767		103	70	130				
Sur. Toluene-d8		3100			2767		112	70	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8260S

Sample ID	0602038-015AMSD	SampType	MSD	TestCode	SW_8260S	Units	µg/Kg-dry	Prep Date			RunNo	3924		
Client ID	ZZZZZZ	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/4/2006	SeqNo	56857			
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		530	55	553.5		0	96.4	70	130	555.7	4.07	25		
1,1,1-Trichloroethane		490	55	553.5		0	87.8	70	130	494.8	1.81	25		
1,1,2,2-Tetrachloroethane		580	55	553.5		0	105	70	130	636.5	8.62	25		
1,1,2-Trichloro-1,2,2-trfluoroethane		510	55	553.5		0	92.0	70	130	529.7	3.94	25		
1,1,2-Trichloroethane		610	55	553.5		0	111	70	130	585.6	4.71	25		
1,1-Dichloroethane		520	55	553.5		0	94.7	70	130	520.3	0.742	25		
1,1-Dichloroethene		480	55	553.5		0	86.2	70	130	488.7	2.41	25		
1,1-Dichloropropene		520	55	553.5		0	94.0	70	130	525.8	1.06	25		
1,2,3-Trichlorobenzene		590	55	553.5		0	106	70	130	574.0	2.00	25		
1,2,3-Trichloropropane		530	55	553.5		0	96.4	70	130	572.9	7.10	25		
1,2,3-Trimethylbenzene		590	55	553.5	28.78		102	70	130	579.5	2.45	25		
1,2,4-Trichlorobenzene		590	280	553.5		0	106	70	130	584.5	0.284	25		
1,2,4-Trimethylbenzene		590	55	553.5	44.28		98.4	70	130	612.2	3.87	25		
1,2-Dibromo-3-chloropropane		560	55	553.5		0	101	70	130	602.2	7.53	25		
1,2-Dichlorobenzene		610	55	553.5		0	111	70	130	610.5	0.452	25		
1,2-Dichloroethane		530	55	553.5		0	95.0	70	130	532.5	1.26	25		
1,2-Dichloropropane		550	55	553.5		0	99.8	70	130	546.8	1.01	25		
1,3,5-Trimethylbenzene		600	55	553.5	43.73		101	70	130	622.1	3.35	25		
1,3-Dichlorobenzene		590	55	553.5		0	106	70	130	591.7	0.657	25		
1,3-Dichloropropane		580	55	553.5		0	104	70	130	570.6	0.773	25		
1,4-Dichlorobenzene		610	55	553.5		0	110	70	130	602.7	0.732	25		
2,2-Dichloropropane		280	55	553.5		0	50.0	70	130	287.8	3.92	25	S	
2-Chloroethyl vinyl ether		ND	550	553.5		0	93.0	70	130	534.1	0	25		
2-Chlorotoluene		570	55	553.5		0	103	70	130	576.2	1.26	25		
2-Hexanone		ND	2800	553.5		0	80.0	70	130	499.2	0	25		
2-Methylnaphthalene		590	280	553.5		0	107	70	130	639.3	7.92	25		
2-Nitropropane		800	220	3874		0	20.7	70	130	768.8	4.09	0	S	
4-Chlorotoluene		560	55	553.5		0	102	70	130	574.5	1.75	25		
Acetone		ND	2800	553.5		0	70.9	70	130	451.1	0	25		
Acrylonitrile		520	280	553.5		0	94.7	70	130	604.4	14.2	25		
Benzene		560	55	553.5		0	101	70	130	564.0	0.986	25		

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	0602038-015AMSD	SampType	MSD	TestCode	SW_8260S	Units	µg/Kg-dry	Prep Date:			RunNo	3924
Client ID	ZZZZZZ	Batch ID	R3924	TestNo	SW8260B <th></th> <th></th> <th>Analysis Date</th> <td>2/4/2006</td> <th>SeqNo</th> <td>56857</td>			Analysis Date	2/4/2006	SeqNo	56857	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	570	55	553.5	0	103	70	130	577.8	1.54	25		
Bromoform	580	55	553.5	0	105	70	130	588.9	1.71	25		
Bromochloromethane	520	55	553.5	0	93.1	70	130	498.1	3.39	25		
Bromodichloromethane	510	55	553.5	0	92.5	70	130	533.0	4.03	25		
Bromomethane	940	280	553.5	0	170	70	130	662.0	35.0	25	SR	
Carbon disulfide	540	280	553.5	0	97.1	70	130	540.2	0.514	25		
Carbon tetrachloride	480	55	553.5	0	87.5	70	130	496.5	2.48	25		
Chlorobenzene	570	55	553.5	0	103	70	130	570.6	0.0970	25		
Chloroethane	550	280	553.5	0	98.5	70	130	544.1	0.203	25		
Chloroform	530	55	553.5	0	95.7	70	130	524.2	1.05	25		
Chloromethane	490	55	553.5	0	88.8	70	130	514.2	4.51	25		
cis-1,2-Dichloroethene	500	55	553.5	0	90.5	70	130	492.6	1.67	25		
cis-1,3-Dichloropropene	510	55	553.5	0	92.4	70	130	508.1	0.651	25		
Dibromochloromethane	540	55	553.5	0	98.2	70	130	523.0	3.84	25		
Dibromomethane	600	55	553.5	0	109	70	130	603.3	0.276	25		
Dichlorodifluoromethane	450	55	553.5	0	81.8	70	130	464.4	2.53	25		
Dichloromethane	540	280	553.5	0	97.8	70	130	554.6	2.42	25		
Diethyl ether	560	280	553.5	0	101	70	130	576.2	3.12	25		
Ethyl methacrylate	590	55	553.5	0	107	70	130	611.6	3.41	25		
Ethylbenzene	610	55	553.5	31.00	104	70	130	606.6	0.0913	25		
Ethylene dibromide	590	55	553.5	0	106	70	130	595.6	1.40	25		
Hexachlorobutadiene	560	280	553.5	0	102	70	130	534.1	5.44	25		
Hexachloroethane	470	55	553.5	0	84.6	70	130	468.3	0	25		
Isopropyl ether	530	280	553.5	0	96.6	70	130	535.2	0.103	25		
Isopropylbenzene	620	55	553.5	20.48	108	70	130	612.2	0.721	25		
m,p-Xylene	1200	110	1107	64.76	106	70	130	1249	1.20	25		
Methyl ethyl ketone	400	280	553.5	0	72.2	70	130	446.7	11.1	25		
Methyl Iodide	1200	280	553.5	0	224	70	130	1168	5.93	25	S	
Methyl isobutyl ketone	ND	550	553.5	0	98.4	70	130	614.9	0	25		
Methyl tert-butyl ether	1100	280	1107	0	97.2	70	130	1115	3.54	25		
Naphthalene	600	280	553.5	0	109	70	130	644.8	6.47	25		

Qualifiers: E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8260S

Sample ID	0602038-015AMSD	SampType	MSD	TestCode	SW_8260S	Units	µg/Kg-dry	Prep Date			RunNo	3924
Client ID.	ZZZZZZ	Batch ID	R3924	TestNo	SW8260B			Analysis Date	2/4/2006	SeqNo	56857	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butylbenzene		570	55	553.5	25.46	98.0	70	130	565.1	0.489	25	
n-Propylbenzene		610	55	553.5	56.46	101	70	130	634.9	3.19	25	
o-Xylene		560	55	553.5	0	102	70	130	582.3	3.38	25	
p-Isopropyltoluene		560	55	553.5	0	102	70	130	561.2	0.197	25	
sec-Butylbenzene		560	55	553.5	0	101	70	130	565.7	1.28	25	
Styrene		590	55	553.5	0	106	70	130	606.1	3.25	25	
t-Butyl alcohol		2500	1400	2767	0	92.1	70	130	2941	14.3	25	
tert-Amyl Methyl Ether		550	220	553.5	0	99.8	70	130	561.2	1.59	25	
tert-Butyl Ethyl Ether		530	280	553.5	0	96.0	70	130	543.0	2.16	25	
tert-Butylbenzene		560	55	553.5	0	101	70	130	569.5	1.57	25	
Tetrachloroethene		370	55	553.5	0	67.1	70	130	372.5	0.298	25	S
Toluene		600	55	553.5	0	108	70	130	587.3	2.05	25	
trans-1,2-Dichloroethene		510	55	553.5	0	92.2	70	130	523.6	2.57	25	
trans-1,3-Dichloropropene		500	55	553.5	0	90.3	70	130	502.6	0.552	25	
trans-1,4-Dichloro-2-butene		580	55	553.5	0	104	70	130	668.6	14.8	25	
Trichloroethene		510	55	553.5	0	92.9	70	130	524.7	2.02	25	
Trichlorofluoromethane		490	55	553.5	0	89.0	70	130	338.7	37.0	25	R
Vinyl chloride		510	44	553.5	0	92.0	70	130	506.4	0.545	25	
Xylenes, Total		1800	170	1660	64.76	104	70	130	1831	1.89	25	
Surr 4-Bromofluorobenzene		3100		2767		111	70	130		0	25	
Surr Dibromofluoromethane		2800		2767		103	70	130		0	25	
Surr Toluene-d8		3200		2767		117	70	130		0	25	

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit  
 R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8270S

Sample ID	0601837-004BMS	SampType	MS	TestCode	SW_8270S	Units	µg/Kg-dry	Prep Date	2/1/2006	RunNo	3935		
Client ID	RM042764:GP2:0800	Batch ID	1682	TestNo	SW8270C			Analysis Date	2/4/2006	SeqNo	56980		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene		1600		390	1961	0	79.2	50	130				
2,4,5-Trichlorophenol		1700		390	1961	0	89.0	50	130				
2,4,6-Trichlorophenol		1700		390	1961	0	84.9	50	130				
2,4-Dichlorophenol		1800		390	1961	0	94.3	50	130				
2,4-Dimethylphenol		1900		390	1961	0	97.4	50	130				
2,4-Dinitrophenol		ND		390	1961	0	0	50	130				S
2,4-Dinitrotoluene		1700		390	1961	0	88.2	50	130				
2,6-Dichlorophenol		ND		390	1961	0	0	50	130				S
2,6-Dinitrotoluene		1900		390	1961	0	96.1	50	130				
2-Chloronaphthalene		1700		390	1961	0	85.7	50	130				
2-Chlorophenol		1700		390	1961	0	88.4	50	130				
2-Methylnaphthalene		2100		390	1961	0	107	50	130				
2-Methylphenol		1900		390	1961	0	94.6	50	130				
2-Nitroaniline		1700		980	1961	0	88.1	50	130				
2-Nitrophenol		1500		390	1961	0	78.4	50	130				
3,3'-Dichlorobenzidine		2700		390	1961	0	138	50	130				S
3/4 Methylphenol		1700		390	1961	0	85.1	50	130				
3-Nitroaniline		2300		980	1961	0	119	50	130				
4,6-Dinitro-2-methylphenol		1100		390	1961	0	54.5	50	130				
4-Chloro-3-methylphenol		1800		330	1961	0	90.5	50	130				
4-Chloroaniline		2100		390	1961	0	106	50	130				
4-Chlorophenyl phenyl ether		1800		390	1961	0	89.4	50	130				
4-Nitroaniline		2400		980	1961	0	121	50	130				
4-Nitrophenol		1700		980	1961	0	88.1	50	130				
Acenaphthene		1800		390	1961	0	90.3	50	130				
Acenaphthylene		1700		390	1961	0	88.6	50	130				
Aniline		1700		390	1961	0	87.0	50	130				
Anthracene		1800		390	1961	0	93.0	50	130				
Benz(a)anthracene		1800		390	1961	0	92.4	50	130				
Benzidine		3700		390	1961	0	190	50	130				S
Benzo(a)pyrene		1800		390	1961	0	90.8	50	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8270S

Sample ID	0601837-004BMS	SampType	MS	TestCode	SW_8270S	Units	µg/Kg-dry	Prep Date	2/1/2006	RunNo	3935	
Client ID	RM042764:GP2:0800	Batch ID	1682	TestNo	SW8270C			Analysis Date	2/4/2006	SeqNo	56980	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene		1900	390	1961	0	96.4	50	130				
Benzo(g,h,i)perylene		1800	390	1961	0	89.5	50	130				
Benzo(k)fluoranthene		1600	390	1961	0	83.2	50	130				
Benzoic acid		ND	3900	1961	0	0	50	130				S
Benzyl alcohol		ND	3900	1961	0	94.3	50	130				
Bis(2-chloroethoxy)methane		1900	390	1961	0	95.8	50	130				
Bis(2-chloroethyl) ether		1600	120	1961	0	84.1	50	130				
Bis(2-chloroisopropyl) ether		1700	390	1961	0	88.9	50	130				
Bis(2-ethylhexyl) phthalate		1700	390	1961	0	88.5	50	130				
Butyl benzyl phthalate		1800	390	1961	0	90.6	50	130				
Carbazole		1900	390	1961	0	94.9	50	130				
Chrysene		1700	390	1961	0	88.4	50	130				
Dibenz(a,h)anthracene		1700	390	1961	0	89.0	50	130				
Dibenzofuran		1800	390	1961	0	90.6	50	130				
Diethyl phthalate		1800	390	1961	0	91.3	50	130				
Dimethyl phthalate		1700	390	1961	0	89.0	50	130				
Di-n-butyl phthalate		1700	390	1961	0	89.1	50	130				
Di-n-octyl phthalate		2000	390	1961	0	99.6	50	130				
Fluoranthene		1700	390	1961	0	88.2	50	130				
Fluorene		1900	390	1961	0	94.7	50	130				
Hexachlorobenzene		1700	390	1961	0	88.1	50	130				
Hexachlorobutadiene		1600	59	1961	0	83.3	50	130				
Hexachlorocyclopentadiene		540	390	1961	0	27.5	50	130				S
Hexachloroethane		1600	350	1961	0	81.2	50	130				
Indeno(1,2,3-cd)pyrene		1700	390	1961	0	88.3	50	130				
Isophorone		1700	390	1961	0	89.2	50	130				
Naphthalene		1700	390	1961	0	88.4	50	130				
Nitrobenzene		1700	390	1961	0	86.7	50	130				
N-Nitrosodimethylamine		1500	390	1961	0	75.9	50	130				
N-Nitrosodi-n-propylamine		1900	390	1961	0	94.9	50	130				
N-Nitrosodiphenylamine		2300	390	1961	0	120	50	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8270S

Sample ID	0601837-004BMS	SampType	MS	TestCode	SW_8270S	Units	µg/Kg-dry	Prep Date	2/1/2006	RunNo	3935	
Client ID	RM042764:GP2:0800	Batch ID	1682	TestNo	SW8270C			Analysis Date.	2/4/2006	SeqNo	56980	
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Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pentachlorophenol	1400	390	1961	0	72.0	50	130				
Phenanthrene	1900	390	1961	0	95.7	50	130				
Phenol	1800	390	1961	0	91.1	50	130				
Pyrene	1800	390	1961	0	92.2	50	130				
Pyndine	1300	390	1961	0	67.6	50	130				
Surr. 2,4,6-Tribromophenol	2100		1961		105	50	130				
Surr 2-Fluorobiphenyl	1700		1961		85.8	50	130				
Surr 2-Fluorophenol	1800		1961		91.1	50	130				
Surr. Nitrobenzene-d5	1800		1961		89.8	50	130				
Surr Phenol-d5	1900		1961		96.6	50	130				
Surr Terphenyl-d14	1700		1961		87.9	50	130				

Sample ID	0601837-004BMSD	SampType	MSD	TestCode	SW_8270S	Units	µg/Kg-dry	Prep Date	2/1/2006	RunNo	3935	
Client ID	RM042764:GP2:0800	Batch ID	1682	TestNo	SW8270C			Analysis Date.	2/4/2006	SeqNo	56981	
<hr/>												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	1600	390	1961	0	82.4	50	130	1553	3.91	25	
2,4,5-Trichlorophenol	1500	390	1961	0	78.1	50	130	1745	13.0	25	
2,4,6-Trichlorophenol	1900	390	1961	0	97.4	50	130	1664	13.7	25	
2,4-Dichlorophenol	1800	390	1961	0	92.9	50	130	1849	1.50	25	
2,4-Dimethylphenol	1900	390	1961	0	97.7	50	130	1909	0.369	25	
2,4-Dinitrophenol	ND	390	1961	0	0	50	130	0	0	25	S
2,4-Dinitrotoluene	1800	390	1961	0	92.8	50	130	1730	5.04	25	
2,6-Dichlorophenol	ND	390	1961	0	0	50	130	0	0	25	S
2,6-Dinitrotoluene	1900	390	1961	0	94.7	50	130	1884	1.47	25	
2-Chloronaphthalene	1700	390	1961	0	86.8	50	130	1681	1.21	25	
2-Chlorophenol	1700	390	1961	0	88.2	50	130	1734	0.226	25	
2-Methylnaphthalene	2200	390	1961	0	111	50	130	2100	3.70	25	
2-Methylphenol	1900	390	1961	0	95.7	50	130	1856	1.13	25	
2-Nitroaniline	1700	980	1961	0	88.8	50	130	1728	0.814	25	
2-Nitrophenol	1600	390	1961	0	79.4	50	130	1536	1.27	25	

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded			J	Analyte detected below quantitation limit		
	M	Manual integration used to determine area response	ND	Not Detected at the Reporting Limit			R	RPD outside accepted recovery limits		
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits						

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8270S

Sample ID	0601837-004BMSD	SampType	MSD	TestCode	SW_8270S	Units	µg/Kg-dry	Prep Date	2/1/2006	RunNo	3935		
Client ID	RM042764:GP2:0800	Batch ID	1682	TestNo	SW8270C			Analysis Date	2/4/2006	SeqNo	56981		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine		2800		390	1961	0	141	50	130	2715	2 14	25	S
3/4 Methylphenol		1700		390	1961	0	86.6	50	130	1669	1 77	25	
3-Nitroaniline		2400		980	1961	0	123	50	130	2325	3 71	25	
4,6-Dinitro-2-methylphenol		940		390	1961	0	48.0	50	130	1068	12 7	25	S
4-Chloro-3-methylphenol		1800		330	1961	0	92.5	50	130	1775	2 14	25	
4-Chloroaniline		2100		390	1961	0	106	50	130	2080	0 113	25	
4-Chlorophenyl phenyl ether		1800		390	1961	0	91.2	50	130	1752	1 99	25	
4-Nitroaniline		2500		980	1961	0	127	50	130	2365	5 07	25	
4-Nitrophenol		1900		980	1961	0	96.4	50	130	1728	8 93	25	
Acenaphthene		1800		390	1961	0	90.5	50	130	1771	0 177	25	
Acenaphthylene		1700		390	1961	0	88.7	50	130	1736	0 135	25	
Aniline		1700		390	1961	0	88.0	50	130	1705	1 19	25	
Anthracene		1900		390	1961	0	94.8	50	130	1824	1 96	25	
Benz(a)anthracene		1800		390	1961	0	94.1	50	130	1811	1 89	25	
Benzidine		3200		390	1961	0	161	50	130	3720	16 3	25	S
Benzo(a)pyrene		1800		390	1961	0	93.4	50	130	1781	2 74	25	
Benzo(b)fluoranthene		1700		390	1961	0	88.7	50	130	1891	8 38	25	
Benzo(g,h,i)perylene		1800		390	1961	0	89.4	50	130	1755	0 179	25	
Benzo(k)fluoranthene		1900		390	1961	0	95.5	50	130	1631	13 8	25	
Benzoic acid		ND		3900	1961	0	0	50	130	0	0	25	S
Benzyl alcohol		ND		3900	1961	0	97.4	50	130	1849	0	25	
Bis(2-chloroethoxy)methane		1900		390	1961	0	94.4	50	130	1879	1 51	25	
Bis(2-chloroethyl) ether		1700		120	1961	0	86.7	50	130	1649	3 00	25	
Bis(2-chloroisopropyl) ether		1700		390	1961	0	89.2	50	130	1744	0 359	25	
Bis(2-ethylhexyl) phthalate		1800		390	1961	0	90.0	50	130	1735	1 75	25	
Butyl benzyl phthalate		1800		390	1961	0	92.2	50	130	1776	1 75	25	
Carbazole		1900		390	1961	0	98.4	50	130	1861	3 60	25	
Chrysene		1800		390	1961	0	90.6	50	130	1734	2 41	25	
Dibenz(a,h)anthracene		1800		390	1961	0	90.6	50	130	1746	1 74	25	
Dibenzofuran		1800		390	1961	0	92.8	50	130	1776	2 40	25	
Diethyl phthalate		1800		390	1961	0	92.8	50	130	1791	1 65	25	

Qualifiers: E Value above quantitation range

H Holding times for preparation or analysis exceeded

J Analyte detected below quantitation lim

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

RL Reporting Detection Limit

S Spike Recovery outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8270S

Sample ID	0601837-004BMSD	SampType	MSD	TestCode	SW_8270S	Units	µg/Kg-dry	Prep Date	2/1/2006	RunNo	3935		
Client ID	RM042764:GP2:0800	Batch ID	1682	TestNo	SW8270C			Analysis Date.	2/4/2006	SeqNo	56981		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dimethyl phthalate			1800	390	1961	0	90.8	50	130	1745	1.96	25	
Di-n-butyl phthalate			1800	390	1961	0	90.8	50	130	1747	1.91	25	
Di-n-octyl phthalate			1900	390	1961	0	98.3	50	130	1952	1.25	25	
Fluoranthene			1800	390	1961	0	90.6	50	130	1730	2.68	25	
Fluorene			1900	390	1961	0	95.1	50	130	1856	0.464	25	
Hexachlorobenzene			1800	390	1961	0	89.7	50	130	1727	1.80	25	
Hexachlorobutadiene			1600	59	1961	0	83.4	50	130	1634	0.0480	25	
Hexachlorocyclopentadiene			970	390	1961	0	49.6	50	130	538.8	57.5	25	
Hexachloroethane			1600	350	1961	0	83.5	50	130	1591	2.82	25	
Indeno(1,2,3-cd)pyrene			1700	390	1961	0	88.6	50	130	1731	0.407	25	
Isophorone			1700	390	1961	0	86.1	50	130	1749	3.56	25	
Naphthalene			1800	390	1961	0	93.2	50	130	1734	5.24	25	
Nitrobenzene			1800	390	1961	0	89.8	50	130	1700	3.58	25	
N-Nitrosodimethylamine			1700	390	1961	0	84.8	50	130	1488	11.1	25	
N-Nitrosodi-n-propylamine			1900	390	1961	0	94.7	50	130	1860	0.211	25	
N-Nitrosodiphenylamine			2400	390	1961	0	122	50	130	2345	2.02	25	
Pentachlorophenol			1400	390	1961	0	73.2	50	130	1411	1.65	25	
Phenanthrene			1900	390	1961	0	95.8	50	130	1876	0.125	25	
Phenol			1800	390	1961	0	92.2	50	130	1786	1.27	25	
Pyrene			1900	390	1961	0	94.5	50	130	1808	2.49	25	
Pyndine			1500	390	1961	0	74.2	50	130	1325	9.37	25	
Surr 2,4,6-Tnbromophenol			2000		1961		104	50	130		0	25	
Surr 2-Fluorobiphenyl			1700		1961		86.8	50	130		0	25	
Surr 2-Fluorophenol			1900		1961		96.0	50	130		0	25	
Surr Nitrobenzene-d5			1800		1961		93.8	50	130		0	25	
Surr Phenol-d5			1900		1961		98.0	50	130		0	25	
Surr Terphenyl-d14			1800		1961		91.0	50	130		0	25	

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim  
 R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

TestCode: SW\_8270S

Sample ID	LCS-1682	SampType	LCS	TestCode	SW_8270S	Units	µg/Kg	Prep Date	2/1/2006	RunNo	3935	
Client ID	LCSS	Batch ID	1682	TestNo	SW8270C			Analysis Date	2/4/2006	SeqNo	56987	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene		1300	330	1667	0	78.8	50	130				
2,4,5-Trichlorophenol		1300	330	1667	0	79.6	50	130				
2,4,6-Trichlorophenol		1600	330	1667	0	95.1	50	130				
2,4-Dichlorophenol		1600	330	1667	0	93.6	50	130				
2,4-Dimethylphenol		1600	330	1667	0	98.1	50	130				
2,4-Dinitrophenol		440	330	1667	0	26.5	50	130				S
2,4-Dinitrotoluene		1600	330	1667	0	93.8	50	130				
2,6-Dichlorophenol		ND	330	1667	0	0	50	130				S
2,6-Dinitrotoluene		1600	330	1667	0	96.0	50	130				
2-Chloronaphthalene		1400	330	1667	0	86.1	50	130				
2-Chlorophenol		1500	330	1667	0	88.0	50	130				
2-Methylnaphthalene		1400	330	1667	0	83.3	50	130				
2-Methylphenol		1600	330	1667	0	96.9	50	130				
2-Nitroaniline		1600	830	1667	0	93.9	50	130				
2-Nitrophenol		1300	330	1667	0	78.4	50	130				
3,3'-Dichlorobenzidine		2300	330	1667	0	139	50	130				S
3/4 Methylphenol		1400	330	1667	0	86.2	50	130				
3-Nitroaniline		2100	830	1667	0	124	50	130				
4,6-Dinitro-2-methylphenol		1000	330	1667	0	62.9	50	130				
4-Chloro-3-methylphenol		1500	280	1667	0	92.8	50	130				
4-Chloroaniline		1700	330	1667	0	104	50	130				
4-Chlorophenyl phenyl ether		1500	330	1667	0	92.4	50	130				
4-Nitroaniline		2100	830	1667	0	129	50	130				
4-Nitrophenol		1500	830	1667	0	91.3	50	130				
Acenaphthene		1500	330	1667	0	89.8	50	130				
Acenaphthylene		1500	330	1667	0	91.6	50	130				
Aniline		1400	330	1667	0	85.0	50	130				
Anthracene		1600	330	1667	0	95.0	50	130				
Benz(a)anthracene		1700	330	1667	0	99.9	50	130				
Benzidine		3800	330	1667	0	228	50	130				S
Benzo(a)pyrene		1700	330	1667	0	101	50	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

# QC SUMMARY REPORT

**TestCode:** SW\_8270S

Sample ID	LCS-1682	SampType	LCS	TestCode	SW_8270S	Units	µg/Kg		Prep Date	2/1/2006	RunNo	3935
Client ID	LCSS	Batch ID	1682	TestNo	SW8270C				Analysis Date	2/4/2006	SeqNo	56987
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene		1600	330	1667	0	97.0	50	130				
Benzo(g,h,i)perylene		1700	330	1667	0	99.8	50	130				
Benzo(k)fluoranthene		1700	330	1667	0	103	50	130				
Benzoic acid		ND	3300	1667	0	0	50	130				S
Benzyl alcohol		ND	3300	1667	0	96.6	50	130				
Bis(2-chloroethoxy)methane		1600	330	1667	0	95.2	50	130				
Bis(2-chloroethyl) ether		1400	100	1667	0	82.4	50	130				
Bis(2-chloroisopropyl) ether		1500	330	1667	0	90.2	50	130				
Bis(2-ethylhexyl) phthalate		1600	330	1667	0	96.7	50	130				
Butyl benzyl phthalate		1600	330	1667	0	98.7	50	130				
Carbazole		1600	330	1667	0	97.6	50	130				
Chrysene		1600	330	1667	0	98.2	50	130				
Dibenz(a,h)anthracene		1700	330	1667	0	102	50	130				
Dibenzofuran		1500	330	1667	0	92.1	50	130				
Diethyl phthalate		1600	330	1667	0	96.2	50	130				
Dimethyl phthalate		1600	330	1667	0	95.2	50	130				
Di-n-butyl phthalate		1600	330	1667	0	96.1	50	130				
Di-n-octyl phthalate		1800	330	1667	0	108	50	130				
Fluoranthene		1600	330	1667	0	95.1	50	130				
Fluorene		1600	330	1667	0	95.7	50	130				
Hexachlorobenzene		1600	330	1667	0	93.6	50	130				
Hexachlorobutadiene		1400	50	1667	0	85.2	50	130				
Hexachlorocyclopentadiene		980	330	1667	0	58.5	50	130				
Hexachloroethane		1400	300	1667	0	83.0	50	130				
Indeno(1,2,3-cd)pyrene		1700	330	1667	0	101	50	130				
Isophorone		1500	330	1667	0	89.4	50	130				
Naphthalene		1400	330	1667	0	84.7	50	130				
Nitrobenzene		1500	330	1667	0	90.6	50	130				
N-Nitrosodimethylamine		1400	330	1667	0	81.4	50	130				
N-Nitrosodi-n-propylamine		1600	330	1667	0	96.1	50	130				
N-Nitrosodiphenylamine		1900	330	1667	0	117	50	130				

**Qualifiers:** E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limit

R RPD outside accepted recovery limits

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode:** SW\_8270S

Sample ID	LCS-1682	SampType	LCS	TestCode	SW_8270S	Units	µg/Kg	Prep Date	2/1/2006	RunNo	3935		
Client ID	LCSS	Batch ID	1682	TestNo	SW8270C			Analysis Date	2/4/2006	SeqNo	56987		
<b>Analyte</b>													
Pentachlorophenol	1100	PQL	330	SPK value	1667	SPK Ref Val	0	%REC	68.9	LowLimit	50	HighLimit	130
Phenanthrene	1600		330		1667		0		94.8		50		130
Phenol	1500		330		1667		0		91.6		50		130
Pyrene	1600		330		1667		0		98.4		50		130
Pyridine	1100		330		1667		0		64.9		50		130
Surr 2,4,6-Tribromophenol	1800				1667				105		50		130
Surr 2-Fluorobiphenyl	1500				1667				88.2		50		130
Surr 2-Fluorophenol	1500				1667				91.4		50		130
Surr. Nitrobenzene-d5	1500				1667				89.8		50		130
Surr Phenol-d5	1600				1667				97.4		50		130
Surr Terphenyl-d14	1600				1667				98.3		50		130

Sample ID	MB-1682	SampType	MBLK	TestCode	SW_8270S	Units	µg/Kg	Prep Date	2/1/2006	RunNo	3935		
Client ID	PBS	Batch ID	1682	TestNo	SW8270C			Analysis Date	2/4/2006	SeqNo	56988		
<b>Analyte</b>													
1,2,4-Trichlorobenzene	ND	PQL	330	SPK value	330	SPK Ref Val		%REC		LowLimit		HighLimit	

2,4,5-Trichlorophenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4-Dichlorophenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dinitrophenol	ND	330
2,4-Dinitrotoluene	ND	330
2,6-Dichlorophenol	ND	330
2,6-Dinitrotoluene	ND	330
2-Chloronaphthalene	ND	330
2-Chlorophenol	ND	330
2-Methylnaphthalene	ND	330
2-Methylphenol	ND	330
2-Nitroaniline	ND	830
2-Nitrophenol	ND	330

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

**CLIENT:** The Traverse Group  
**Work Order:** 0601837  
**Project:** WCBRA/EPA Corktown Area 4 - RM042764-0

## QC SUMMARY REPORT

**TestCode: SW\_8270S**

Sample ID. MB-1682	SampType MBLK	TestCode SW_8270S	Units µg/Kg	Prep Date 2/1/2006	RunNo 3935						
Client ID PBS	Batch ID 1682	TestNo SW8270C		Analysis Date 2/4/2006	SeqNo 56988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	ND	330									
3/4 Methylphenol	ND	330									
3-Nitroaniline	ND	830									
4,6-Dinitro-2-methylphenol	ND	330									
4-Chloro-3-methylphenol	ND	280									
4-Chloroaniline	ND	330									
4-Chlorophenyl phenyl ether	ND	330									
4-Nitroaniline	ND	830									
4-Nitrophenol	ND	830									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Aniline	ND	330									
Anthracene	ND	330									
Benz(a)anthracene	ND	330									
Benzidine	ND	330									
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Benzoic acid	ND	3300									
Benzyl alcohol	ND	3300									
Bis(2-chloroethoxy)methane	ND	330									
Bis(2-chloroethyl) ether	ND	100									
Bis(2-chloroisopropyl) ether	ND	330									
Bis(2-ethylhexyl) phthalate	ND	330									
Butyl benzyl phthalate	ND	330									
Carbazole	ND	330									
Chrysene	ND	330									
Dibenz(a,h)anthracene	ND	330									
Dibenzofuran	ND	330									
Diethyl phthalate	ND	330									

**Qualifiers:** E Value above quantitation range  
 M Manual Integration used to determine area response  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation lim  
 R RPD outside accepted recovery limits



## CHAIN OF CUSTODY RECORD

RTI LABORATORIES, INC.



A2LA Cert #570 01/02



NELAC Cert #000973



MBE Cert #R-8150-2-424



8(a) / Small Disadvantaged Business

MAIN LAB &amp; HEADQUARTERS

RTI LABORATORIES, INC.

31628 Glendale Street  
Livonia, MI 48150-1827

Phone (734) 422-8000

Fax (734) 422-5342  
[www.rtlab.com](http://www.rtlab.com)

Please Include Email Address of Report Recipient Whenever Possible !!!

SUBMITTING COMPANY <i>The Trutte's Inc.</i>						REPORT TO <i>Environmental</i>	BILL TO <i>Env Service</i>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
PROJECT NAME <i>111-111-1111 Cork in Area 4</i>		PROJECT # <i>123456789-A-008</i>	QUOTE #	COMPANY <i>Env Services Group</i>				PHONE <i>313-871-5807</i>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
SPECIAL INSTRUCTIONS/COMMENTS <i>Do not open until sample is analyzed</i>						FAX <i>313-871-5808</i>	EMAIL <i>Capitol@EnvServicesGroup.com</i>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SAMPLER'S PRINTED NAME <i>John Doe</i>			SAMPLER'S SIGNATURE <i>John Doe</i>			ANALYTICAL PARAMETERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
ITEM #	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	AIR	SOLID	FLUID	VOLUME	SAMPLE DESCRIPTION	NBR OF CONTAINERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

**TAT:** Standard  **RUSH:** Next BD  2nd BD  3rd BD   
Note: RUSH requests will incur surcharges!

**FOR LAB USE ONLY**

Were samples preserved  in field  in lab  N/A

Were samples filtered  in field  in lab  N/A

Temp of samples  °C On Wet Ice? \_\_\_\_\_

Comments \_\_\_\_\_